

DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

NAVY METROLOGY AND

CALIBRATION PROGRAM

N88-NTSP-A-50-8701B/D

DECEMBER 1999

NAVY METROLOGY AND CALIBRATION PROGRAM

EXECUTIVE SUMMARY

The Navy Metrology and Calibration (METCAL) Program ensures that Support Equipment (SE) with calibration capability is compared and adjusted to metrology standards of higher accuracy. It also ensures these accuracy measurements are uniform and traceable to the National Institute of Standards and Technology, the U.S. Naval Observatory, or Department of Defense (DoD) approved sources. The Navy Metrology Engineering Center, Naval Weapons Station, Seal Beach, California, provides technical guidance. Naval Sea Systems Command (NAVSEASYS.COM) maintains management control as the lead systems command for the Navy METCAL Program. The Naval Air Systems Command (NAVAIRSYSCOM) establishes Naval Aviation METCAL Program qualification criteria and training requirements, conducts training for higher echelon calibration activities, and coordinates and monitors METCAL training conducted for the Navy and Marine Corps at Naval Technical Training Unit (NTTU) Keesler Air Force Base (AFB), Biloxi, Mississippi.

The METCAL Program specifies the hierarchy of calibration facilities. The Navy Standards Laboratories (NSLs) and the Navy Depot Calibration Laboratories (NDCLs) are depot level facilities. NSLs and NDCLs provide calibration and repair of metrology standards and SE that are beyond the capability of the Field Calibration Activities (FCAs). The NSL at Naval Air Station (NAS) North Island, California, is designated as the Navy Primary Standards Laboratory (NPSL). FCAs are Intermediate Maintenance Activities ashore and afloat. The FCAs are operated primarily by military personnel, and provide intermediate level calibration and repair of any fleet SE and metrology standard where standards and instrument calibration procedures exist within their cognizance. The calibration and maintenance of metrology standards and SE is conducted at the intermediate and depot levels. SE items and standards are calibrated per calibration cycles and procedures listed in the Metrology Requirements List (METRL NA-17-35MTL-1).

Aviation calibration and maintenance functions are performed by qualified Navy enlisted personnel with Navy Enlisted Classification (NEC) 6673, Field Calibration Activity Technician (Electrical/Electronic) and NEC 5189, Fleet Electronics Calibration Technician, and by U.S. Marine Corps aviation personnel with Military Occupational Specialty (MOS) 6492, Aviation Precision Measurement Equipment (PME)/Calibration and Repair Technician, Intermediate Maintenance Activity (IMA). Advanced calibration and maintenance functions are performed by qualified Navy enlisted personnel with NEC 6718, Electronics Standards Specialist, and by U.S. Marine Corps personnel with MOS 6492 who are graduates of C-198-2011, Advanced Calibration Technician Course. Qualified intermediate level calibration and maintenance personnel are identified by NEC or MOS and are within the activity's existing manpower authorization (OPNAV 1000/2 or Marine Corps Table of Organization). No increase or decrease in IMA billet structure is required by this Navy Training System Plan.

N88-NTSP-A-50-8701B/D
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NAVY METROLOGY AND CALIBRATION PROGRAM

Follow-on training for MOS 6492 and NECs 1589, 6673, and 6718 is currently being conducted at NTTU Keesler AFB, Biloxi.

NAVY METROLOGY AND CALIBRATION PROGRAM

TABLE OF CONTENTS

	Page
Executive Summary.....	i
List of Acronyms.....	iv
Preface.....	vi
PART I - TECHNICAL PROGRAM DATA	
A. Nomenclature-Title-Program	I-1
B. Security Classification	I-1
C. Manpower, Personnel, and Training Principals.....	I-1
D. System Description.....	I-2
E. Developmental Test and Operational Test.....	I-2
F. Aircraft and/or Equipment/System/Subsystem Replaced	I-2
G. Description of New Development.....	I-2
H. Concepts	I-3
I. Onboard (In-Service) Training.....	I-8
J. Logistics Support	I-9
K. Schedules	I-9
L. Government Furnished Equipment and Contractor Furnished Equipment Training Requirements.....	I-10
M. Related NTSPs and Other Applicable Documents	I-10
PART II - BILLET AND PERSONNEL REQUIREMENTS	II-1
PART III - TRAINING REQUIREMENTS.....	III-1
PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS.....	IV-1
PART V - MPT MILESTONES.....	V-1
PART VI - DECISION ITEMS/ACTION REQUIRED	VI-1
PART VII - POINTS OF CONTACT	VII-1

NAVY METROLOGY AND CALIBRATION PROGRAM

LIST OF ACRONYMS

AFB	Air Force Base
AFM	Aviation Fleet Maintenance
AMTCS	Aviation Maintenance Training Continuum System
AT	Aviation Electronics Technician
CBT	Computer-Based Training
ET	Electronics Technician
FCA	Field Calibration Activity
IMA	Intermediate Maintenance Activity
MAG	Marine Aircraft Group
MATMEP	Maintenance Training Management and Evaluation Program
MEASURE	Metrology Automated System for Uniform Recall and Reporting
METCAL	Metrology and Calibration
METER	Metrology Equipment Recall
METRL	Metrology Requirements List
MOCC	MEASURE Operations Control Center
MOS	Military Occupational Specialty
MPT	Manpower, Personnel, and Training
MTIP	Maintenance Training Improvement Program
NAS	Naval Air Station
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAVSEASYSCOM	Naval Sea Systems Command
NDCL	Navy Depot Calibration Laboratory
NEC	Navy Enlisted Classification
NIST	National Institute of Standards and Technology
NPSL	Navy Primary Standards Laboratory
NSL	Navy Standards Laboratory
NTSP	Navy Training System Plan
NTTU	Naval Technical Training Unit
OPNAV	Office of the Chief of Naval Operations

NAVY METROLOGY AND CALIBRATION PROGRAM

LIST OF ACRONYMS

OPNAVINST	Office of the Chief of Naval Operations Instruction
PME	Precision Measuring Equipment
RFOU	Ready For Operational Use
RFT	Ready For Training
SE	Support Equipment
TAMS	Test and Monitoring System
TD	Training Device
TFS	Total Force Structure
TTE	Technical Training Equipment
USMC	United States Marine Corps

NAVY METROLOGY AND CALIBRATION PROGRAM

PREFACE

This Draft Navy Training System Plan (NTSP) for the Navy Metrology and Calibration Program replaces the Aviation Support Equipment Calibration Program Navy Training Plan (NTP) A-50-8701A/A dated October 1992, and has been updated to comply with the guidelines as set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97. This NTSP addresses and updates training and manpower requirements for aviation and aviation support activities. Specifically, this NTSP reflects the following changes to the METCAL program:

- Updates the list of Manpower, Personnel, and Training Principals
- Identifies Naval Technical Training Unit (NTTU) Keesler Air Force Base (AFB), Biloxi, Mississippi, as the training location and course model manager
- Adds C-198-2011, Advanced Calibration Technician
- Adds C-198-2013, Surface Basic Calibration Technician Pipeline
- Removes Marine Corps Military Occupational Specialty (MOS) 6491
- Updates onboard (in-service) training to reflect current program status
- Updates logistics support information
- Updates manpower billet requirements to include new construction and deactivation schedules
- Updates program training milestones
- Updates points of contact listing

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

- 1. Nomenclature-Title-Acronym.** Navy Metrology and Calibration (METCAL) Program
- 2. Program Element.** None

B. SECURITY CLASSIFICATION

- 1. System Characteristics** Unclassified
- 2. Capabilities** Unclassified
- 3. Functions.....** Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N881)

OPO Resource Sponsor..... CNO (N881)

Marine Corps Program Sponsor..... CMC (ASM-1)

Developing Agency..... NAVAIRSYSCOM (AIR 3.6)

Training Agency
CINCLANTFLT
CINCPACFLT
CNET
COMNAVRESFOR
CMC

Training Support Agency..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor
CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training CNO (N7)

Marine Corps Combat Development Command
Manpower Management TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The Navy METCAL Program, established by the Secretary of the Navy through SECNAVINST 3960.6, provides for calibration and repair facilities to ensure optimum performance of calibratable Support Equipment (SE). Calibratable SE is compared and adjusted to metrology standards of higher accuracy. The Commander, Naval Air Systems Command (AIR-3.6.1) provides policy, procedures, management, and funding for the Naval Aviation METCAL Program as discussed in this NTSP. The Commander, Naval Sea Systems Command (SEA-04M13) is the lead systems command for the Navy METCAL Program.

2. Foreign Military Sales. NA

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. NA

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. NA

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The Navy METCAL Program (web address: <http://metrology.corona.navy.mil>) ensures that measurement accuracy is uniform and traceable to the National Institute of Standards and Technology (NIST) (www.nist.gov), the U.S. Naval Observatory (www.usno.navy.mil), or Department of Defense (DoD) approved sources. The Navy Metrology Engineering Center, Naval Weapons Station, Seal Beach, California, provides technical guidance. NAVAIRSYSCOM establishes Naval Aviation METCAL Program qualification criteria and training requirements, conducts training for higher echelon calibration activities, and coordinates and monitors METCAL training conducted for the Navy and Marine Corps at NTTU Keesler AFB, Biloxi, Mississippi.

Metrology standards are laboratory type devices used to maintain continuity of value in the units of measurement, and may be used to calibrate a standard of lesser accuracy or to directly calibrate SE. SE includes Test and Monitoring Systems (TAMS), automatic test equipment, general and special purpose electronic test equipment, and related equipment and software. SE items and metrology standards are calibrated per the intervals and procedures listed in the Metrology Requirements List (METRL) number NA-17-35MTL-1.

The METCAL Program specifies the following hierarchy of calibration facilities:

a. Navy Primary Standards Laboratory. The Navy Primary Standards Laboratory (NPSL), located at Naval Air Station (NAS) North Island, California, is the Fleet Support Activity (FSA) for calibration standards. The NPSL (www.nadepni.navy.mil/npsl) maintains direct liaison with the NIST and the Naval Observatory to ensure measurements are traceable. These laboratories provide special metrology engineering services for standards and

TAMS beyond the capability of lower echelon calibration laboratories, and serve as a repository for Navy primary standards.

b. Navy Depot Calibration Laboratory. The Navy Depot Calibration Laboratories (NDCLs) provide calibration and repair of metrology standards and SE that are beyond the capability of lower echelon calibration laboratories. NDCLs maintain traceability to the National Bureau of Standards via the NPSL. NDCLs are operated ashore but also provide on-site services to Naval Air Systems Command (NAVAIRSYSCOM) activities ashore and afloat.

c. Field Calibration Activities. Approximately 100 Intermediate Maintenance Activities (IMAs), ashore and afloat, are designated Field Calibration Activities (FCA). The FCAs are operated primarily by military personnel and provide intermediate level calibration and repair of any fleet SE and metrology standard for which they maintain standards and instrument calibration procedures.

- 2. Physical Description.** NA
- 3. New Development Introduction.** NA
- 4. Significant Interfaces.** NA
- 5. New Features, Configurations, or Material.** NA

H. CONCEPTS

1. Operational Concept. Calibration and maintenance functions are performed by qualified Navy enlisted personnel and Marine Corps aviation personnel with the following Navy Enlisted Classification (NEC) and Military Occupational Specialty codes:

- NEC 6673, Field Calibration Activity Technician (Electrical/Electronic), E-3 to E-6
- NEC 1589, Fleet Electronics Calibration Technician, E-4 to E-7
- MOS 6492, Aviation Precision Measuring Equipment/Automatic Test Equipment (PME/ATE) Calibration and Repair Technician, E-3 to E-7

Advanced calibration and maintenance functions are performed by qualified Navy enlisted personnel with NEC 6718, Electronics Standards Specialist (E-5 to E-6), U.S. Marine Corps personnel with MOS 6492 (E-3 to E-7) who are graduates of C-190-2011, and civilian personnel who are graduates of an authorized calibration course or equivalent. All personnel performing calibration and maintenance functions are trained in Metrology Automated System for Uniform Recall and Reporting (MEASURE) system operation, procedural, and documentation disciplines. Initial MEASURE training is obtained from NTTU Keesler AFB. Additional MEASURE training is available upon request from MEASURE Operations Control Center (MOCC). Per Office of

the Chief of Naval Operations Instruction (OPNAVINST) 4790.2G (www.nalda.navy.mil/4790), personnel holding other NECs or MOSs may be used in the calibration of physical, mechanical, pressure, and temperature equipment after completion of either formal or on-the-job training.

2. Maintenance Concept. Metrology standards and TAMS are maintained per designated calibration intervals and procedures. The calibration and repair of metrology standards will be conducted per the laboratory structures specified in the METCAL Program. Calibration intervals and procedures are defined in METRL NA-17-35MTL-1. A wide variety of metrology standards and TAMS are used in quantitative applications.

The MEASURE provides a standardized system for the recall and scheduling of TAMS and metrology standards into appropriate calibration facilities or laboratories, and for the documentation of data pertaining to calibration actions performed.

The calibration and maintenance of metrology standards and TAMS is based upon scheduled and unscheduled maintenance per OPNAVINST 4790.2G, and will be conducted under organizational, intermediate, and depot levels as follows:

a. Organizational. No calibration or repair of metrology standards or TAMS will be conducted at the organizational level of maintenance.

b. Intermediate. Work Center 670 FCA personnel, per the OPNAVINST 4790.2G and METRL NA-17-35MTL-1 ashore and afloat, will perform scheduled and unscheduled calibration and repair of fleet TAMS. The calibration and repair of fleet TAMS will be documented on a MEASURE Metrology Equipment Recall (METER) card (OPNAV 4790/58) and appropriate calibration labels or tags attached. The calibration of fleet TAMS that are not authorized, or are beyond the capability of maintenance at the intermediate level, will be forwarded to the appropriate authorized calibration and repair facility. The intermediate level also performs calibration and repair of metrology standards within their cognizance.

c. Depot. The calibration and repair of metrology standards and fleet TAMS which are beyond the capability of maintenance at the intermediate level will be conducted at the Navy Standards Laboratories (NSLs) and NDCLs per OPNAVINST 4790.2G and METCAL Programs.

d. Interim Maintenance. NA

e. Life Cycle Maintenance Plan. NA

3. Manning Concept. Qualified intermediate level calibration and maintenance personnel are identified by NEC or MOS and are within the activity's existing manpower authorization (OPNAV 1000/2 or Marine Corps Table of Organization). No increase or decrease in the IMA billet structure is required by this NTSP. This NTSP only addresses the requirements for manning billets authorized to be filled within aviation support activities by designated personnel in both the Navy and the Marine Corps.

4. Training Concept. Calibration training for Navy and Marine Corps personnel is currently being conducted at NTTU Keesler AFB. Navy personnel are trained for NEC 6673, 1589, and 6718; Marine Corps personnel are trained for MOS 6492 (basic and advanced as required).

Selected Reserve personnel may earn intermediate level maintenance NECs by attending formal training at NTTU Keesler AFB providing a quota and funding are available, and the student is available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

The established training concept for most aviation maintenance training divides “A” School courses into two or more segments called Core and Strand. The “C” School courses are also divided into separate Initial and Career training courses. “A” School Core courses include general knowledge and skills training for the particular rating, while “A” School Strand courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student’s fleet activity destination. Strand training immediately follows Core training and is part of the “A” School. Upon completion of Core and Strand “A” School, graduates attend the appropriate Initial “C” School for additional specific training. Initial “C” School training is intended for students with a paygrade of E-4 and below. Career “C” School training is provided for E-4 and above personnel to enhance skills and knowledge within their field.

a. Initial Training. Initial training is not required.

b. Follow-on Training. Follow-on training for operator and organizational maintenance is not applicable. Follow-on training for United States Navy (USN) and United States Marine Corps (USMC) intermediate level is listed below.

Title	Aviation Basic Calibration Technician Pipeline
CIN	C-198-2012
Model Manager ..	NTTU Keesler AFB
Description	This course provides Navy, Marine Corps, and civilian technicians with the necessary training to effectively manage the MEASURE and to properly use authorized physical and dimensional calibration standards, including the fundamentals of test equipment maintenance, management procedures of NAVAIRSYSCOM PME BRANCH/WC-670, and sufficient knowledge of avionics corrosion control.
Location	NTTU Keesler AFB
Length	131 days
RFT date	Currently available

Skill identifiers ... NEC 6673, MOS 6492
TTE/TD NA
Prerequisite C-100-2017, Avionics Technician I Level Class A1

Note: C-198-6671 (General Purpose Electronic Test Equipment Calibration and Maintenance (GCAMS)) and C-198-3034 (Intermediate Level Calibration of Physical/Dimensional Test and Measuring Systems, Phases B/D) are required pipeline segments for NEC 6673 and MOS 6492, and are included in C-198-2012, Aviation Basic Calibration Technician Pipeline.

Title **Advanced Calibration Technician**
CIN C-198-2011
Model Manager .. NTTU Keesler AFB
Description This course provides Navy, Marine Corps, and civilian technicians with technical training in advanced electronic calibration concepts. Training includes theory, application, and use and calibration of test equipment and standards for resistance, impedance, voltage, current, frequency, signal generation systems, power, and attenuation, including theory pertaining to fixed and swept measurements at microwave frequencies.
Location NTTU Keesler AFB
Length 81 days
RFT date Currently available
Skill identifiers NEC 6718, MOS 6492
TTE/TD NA
Prerequisite C-198-2012, Aviation Basic Calibration Technician Pipeline

Title **Surface Basic Calibration Technician Pipeline**
CIN C-198-2013
Model Manager .. NTTU Keesler AFB

Description	This course provides Navy and civilian technicians with sufficient skills, knowledge and techniques to operate, calibrate, analyze, troubleshoot, and repair General Purpose Electronic Test Equipment (GPETE), as well as operate and calibrate with Modularly Equipped and Configured Calibrators and Analyzers (MECCA).
Location	NTTU Keesler AFB
Length	123 days
RFT date	Currently available
Skill identifier.....	NEC 1589
TTE/TD	NA
Prerequisite	A-100-0140, Electronics Technician Strand A School or equivalent fleet experience

Note: C-198-6671 (General Purpose Electronic Test Equipment Calibration and Maintenance (GCAMS)) and A-198-0056 (Field Calibration Activity (FCA) Maintenance) are required pipeline segments for NEC 1589 and are included in C-198-2013, Surface Basic Calibration Technician Pipeline.

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AT 6673	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1
MOS 6492	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1
AT 6718	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1 C-198-2012, Aviation Basic Calibration Technician Pipeline
ET 1589	A-100-0140, Electronics Technician Strand A School or Equivalent Fleet Experience

d. Training Pipelines. NA

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program.

The Maintenance Training Improvement Program (MTIP) is used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls. (MTIP will be replaced by Aviation Maintenance Training Continuum System (AMTCS). Currently planning is for AMTCS to begin initial implementation in third quarter Fiscal Year (FY) 00.

COMNAVAIRPAC has discontinued using MTIP. They are currently using maintenance data products as a source to determine maintenance training deficiencies until AMTCS is implemented.

b. Aviation Maintenance Training Continuum System.

AMTCS provides the Sailor or Marine career path training from their initial service entry to the end of their military career. AMTCS is an integrated system which satisfies the training/administrative requirements of both the individual and the organization; the benefits are manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

AMTCS provides a cost effective training continuum as an integrated system, which satisfies the training and administrative requirements of both the individual Sailor or Marine and the organization. Technology investments enabled the design and development of several state-of-the-art training/administrative tools: Computer-Based Training (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM) which provides testing {Test and Evaluation (TEV)}, recording {Electronic Training Jacket (ETJ)}, and a Feedback system. The core functionality of these AMTCS tools are based and designed around actual maintenance related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software i.e. Fleet Training Devices

(FTD) - Laptops, PCs; Electronic Class Rooms (ECR); Learning Resource Centers (LRC) and operating software, network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. NA

2. Program Documentation. NA

3. Technical Data Plan. A list of calibration publications and training manuals is found in METRL NA-17-35MTL-1. Items required for each course are identified in element IV.B.4 of this NTSP.

4. Test Sets, Tools, and Test Equipment. NA

5. Repair Parts. Depot Metrology standards repair parts and spares requirements are controlled by NAVAIRSYSCOM. Intermediate Metrology standards and TAMS repair parts and spares requirements are controlled by appropriate Type Commanders via allocation of Aviation Fleet Maintenance (AFM) Funds.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. NA

2. Ready For Operational Use Schedule. The equipment is Ready for Operational Use (RFOU) when delivered.

3. Time Required to Install at Operational Sites. No installation is required.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. NA

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Department of the Navy Policy and Responsibilities for Test, Measurement, Monitoring, Diagnostic Equipment and Systems, and Metrology and Calibration (METCAL)	SECNAVINST 3960.6	OP-461	Approved 12 Oct 90
Navy Test and Monitoring Systems (TAMS)	OPNAVINST 3960.16	N433	Approved 18 Jan 95
Naval Aviation Metrology and Calibration Program	NAVAIRINST 13640.1A	AIR-4171	Approved 16 Jan 92

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the Navy Metrology and Calibration (METCAL) Program and, therefore, are not included in Part II of this NTSP:

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

Note 1: Billet and Personnel requirements for CVN-76 USS Ronald Reagan were estimated as compared to a similar platform.

Note 2: Annual Training Requirements for C-198-2013, Surface Basic Calibration Technician Pipeline, were calculated on aviation support billets only.

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy: Total Force Manpower Management System

DATE: 8/1/99

SOURCE: USMC: Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: 8/1/99

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITIES - USMC						
ATC DET	XXXXX	1	0	0	0	0
ATC DET B MACS 24, Willow Grove	XXXXX	1	0	0	0	0
HMH-362, MCAF Kaneohe	31947	1	0	0	0	0
HMH-363, MCAF Kaneohe	31947	1	0	0	0	0
HMH-461, MCAS New River	09167	1	0	0	0	0
HMH-464, MCAS New River	52841	1	0	0	0	0
HMH-772, NAS Willow Grove	67828	1	0	0	0	0
HMLA-167, MCAS New River	09167	1	0	0	0	0
HMLA-269, MCAS New River	52841	1	0	0	0	0
HMLA-773 DET A, NAS Willow Grove	67829	1	0	0	0	0
HMLA-773, NAS Atlanta	67826	1	0	0	0	0
HMLA-775 Det A, Belle Chase	45238	1	0	0	0	0
HMM(T)-164, Camp Pendleton	46623	1	0	0	0	0
HMM-162, MCAS New River	52841	1	0	0	0	0
HMM-261, MCAS New River	09167	1	0	0	0	0
HMM-263, MCAS New River	52841	1	0	0	0	0
HMM-264, MCAS New River	09167	1	0	0	0	0
HMM-266, MCAS New River	09167	1	0	0	0	0
HMM-365, MCAS New River	52841	1	0	0	0	0
HMM-764, Edwards AFB	67824	1	0	0	0	0
HMM-774, NAS Norfolk	67825	1	0	0	0	0
HMT-301, MCAF Kaneohe	31947	1	0	0	0	0
HMT-302, MCAS New River	09132	1	0	0	0	0
HMX-1, MCAF Quantico	48099	1	0	0	0	0
KC-130 DETS	XXXXX	1	0	0	0	0
MALS-13 (FW), MCAS Yuma	31055	1	0	0	0	0
MALS-14 (FW), MCAS Cherry Point	57080	1	0	0	0	0
MALS-16 (RW), MCAS Miramar	46623	1	0	0	0	0
MALS-26 (RW), MCAS New River	09167	1	0	0	0	0
MALS-29 (RW), MCAS New River	52841	1	0	0	0	0
MALS-31 (FW), MCAS Beaufort	09131	1	0	0	0	0
MALS-42 (RW), NAS Atlanta	67245	1	0	0	0	0
MALS-49 (RW), Fort Stewart	67855	1	0	0	0	0
MASS-2, Okinawa	57079	1	0	0	0	0
VMA-223, MCAS Cherry Point	57080	1	0	0	0	0
VMA-231, MCAS Cherry Point	57080	1	0	0	0	0
VMA-542, MCAS Cherry Point	57080	1	0	0	0	0
VMAQ-1, MCAS Cherry Point	57080	1	0	0	0	0
VMAQ-3, MCAS Cherry Point	57080	1	0	0	0	0
VMAQ-4, MCAS Cherry Point	57080	1	0	0	0	0
VMAT-203, MCAS Cherry Point	57080	1	0	0	0	0
VMFA CV MAL Augment	XXXXX	1	0	0	0	0
VMFA(AW)-224, MCAS Beaufort	09131	1	0	0	0	0

VMFA(AW)-332, MCAS Beaufort

09131 1 0 0 0 0 0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy: Total Force Manpower Management System

DATE: 8/1/99

SOURCE: USMC: Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: 8/1/99

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
VMFA(AW)-533, MCAS Beaufort	09131	1	0	0	0	0
VMFA-134, MCAS Atlanta	67822	1	0	0	0	0
VMFA-232, MCAS Miramar	46623	1	0	0	0	0
VMFA-314, MCAS Miramar	46623	1	0	0	0	0
VMFA-321, Andrews AFB	67815	1	0	0	0	0
VMGR-234, Fort Worth	67816	1	0	0	0	0
VMGR-452, Fort Stewart	67855	1	0	0	0	0
VMGRT-253, MCAS Cherry Point	57080	1	0	0	0	0
VMMT-204, MCAS New River	52842	1	0	0	0	0
VMU-1, MCAS Yuma	31055	1	0	0	0	0
VMU-2, MCAS Cherry Point	57080	1	0	0	0	0
ATC DET A MACS 24, Fort Worth	08854	1	0	0	0	0
HMH-361, MCAS Miramar	46623	1	0	0	0	0
HMH-366, MCAF Kaneohe	31947	1	0	0	0	0
HMH-462, MCAS Miramar	46623	1	0	0	0	0
HMH-463, MCAF Kaneohe	31947	1	0	0	0	0
HMH-465, MCAS Miramar	46623	1	0	0	0	0
HMH-466, MCAS Miramar	46623	1	0	0	0	0
HMH-769, Edwards AFB	67821	1	0	0	0	0
HMLA-169, Camp Pendleton	31053	1	0	0	0	0
HMLA-267, Camp Pendleton	31053	1	0	0	0	0
HMLA-367, Camp Pendleton	31053	1	0	0	0	0
HMLA-369, Camp Pendleton	31053	1	0	0	0	0
HMLA-775, Camp Pendleton	46615	1	0	0	0	0
HMM-161, MCAS Miramar	46623	1	0	0	0	0
HMM-163, MCAS Miramar	46623	1	0	0	0	0
HMM-165, MCAS Miramar	31053	1	0	0	0	0
HMM-166, MCAS Miramar	31053	1	0	0	0	0
HMM-262, MCAS Okinawa	57079	1	0	0	0	0
HMM-265, MCAS Okinawa	57079	1	0	0	0	0
HMM-268, Camp Pendleton	31053	1	0	0	0	0
HMM-364, Camp Pendleton	31053	1	0	0	0	0
HMT-303, Camp Pendleton	55176	1	0	0	0	0
MALS-11 (FW), MCAS Miramar	46623	1	0	0	0	0
MALS-12 (FW), Iwakuni	41975	1	0	0	0	0
MALS-36 (RW), MCAS Okinawa	57079	1	0	0	0	0
MALS-39 (RW), Camp Pendleton	31053	1	0	0	0	0
MALS-41 (FW), Fort Worth	67837	1	0	0	0	0
MALS-46 (FW), MCAS Miramar	67823	1	0	0	0	0
MALSE (RW), MCAF Kaneohe	31947	1	0	0	0	0
Marine AVN WPNS & Tactics SQD, MCAS Yuma	55167	1	0	0	0	0
VAQ-129, Whidbey Island	09995	1	0	0	0	0
VMA-211, MCAS Yuma	31055	1	0	0	0	0
VMA-214, MCAS Yuma	31055	1	0	0	0	0
VMA-311, MCAS Yuma	31055	1	0	0	0	0
VMA-513, MCAS Yuma	31055	1	0	0	0	0
VMFA(AW)-121, MCAS Miramar	46623	1	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy: Total Force Manpower Management System DATE: 8/1/99
 SOURCE: USMC: Extract from Table of Manpower Requirements, TFS, MCCDC DATE: 8/1/99

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
VMFA(AW)-225, MCAS Miramar	46623	1	0	0	0	0
VMFA(AW)-242, MCAS Miramar	46623	1	0	0	0	0
VMFA-112, Fort Worth	67814	1	0	0	0	0
VMFA-134, MCAS Miramar	81662	1	0	0	0	0
VMFA-212, Iwakuni	41975	1	0	0	0	0
VMFA-323, MCAS Miramar	46623	1	0	0	0	0
VMFAT-101, MCAS Miramar	52817	1	0	0	0	0
TOTAL:		98	0	0	0	0
OPERATIONAL ACTIVITIES - NAVY						
VMAQ-2, MCAS Cherry Point	57080	1	0	0	0	0
HELSUPPRON 5	44310	1	0	0	0	0
TOTAL:		2	0	0	0	0
FLEET SUPPORT ACTIVITIES - USMC						
4TH MAW HQ, New Orleans	67811	1	0	0	0	0
COMNAVAIRLANT, Norfolk	44481	1	0	0	0	0
MASS-1, MCAS Cherry Point	57080	1	0	0	0	0
MAW Calibration Lab	XXXXX	1	0	0	0	0
MC PERS Dept of Navy, Blount Island	45741	1	0	0	0	0
COMNAVAIRPAC, San Diego	30248	1	0	0	0	0
MASS-3, Camp Pendleton	31053	1	0	0	0	0
MCAS Iwakuni	62613	1	0	0	0	0
TOTAL:		8	0	0	0	0
FLEET SUPPORT ACTIVITIES - NAVY						
ABFC FMP HOTEL	68822	1	0	0	0	0
AIMD Sigonella Detachment Rota	44374	1	0	0	0	0
AIR-6.0 IND NWCF	31304	1	0	0	0	0
CV 67 USS John F. Kennedy	03367	1	0	0	0	0
CVN 65 USS Enterprise	03365	1	0	0	0	0
CVN 68 USS Nimitz	03368	1	0	0	0	0
CVN 69 USS Dwight D. Eisenhower	03369	1	0	0	0	0
CVN 71 USS Theodore Roosevelt	21247	1	0	0	0	0
CVN 73 USS George Washington	21412	1	0	0	0	0
CVN 75 USS Harry S. Truman	21853	1	0	0	0	0
LHA 2 USS Saipan	20632	1	0	0	0	0
LHA 4 USS Nassau	20725	1	0	0	0	0
LHD 1 USS Wasp	21560	1	0	0	0	0
LHD 3 USS Kearsarge	21700	1	0	0	0	0
LHD 5 USS Bataan	21879	1	0	0	0	0
LHD 7 USS Iwo Jima	23027	0	0	1	0	0
NADOC Detachment Sigonella	39307	1	0	0	0	0
NADOC PAX Detachment Rota	35936	1	0	0	0	0
NAF Adak	60462	1	0	0	0	0
NAF Washington DC RAIMD	44492	1	0	0	0	0
NAS Atlanta RAIMD	44486	1	0	0	0	0

NAS Brunswick AIMD

44314 1 0 0 0 0 0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy: Total Force Manpower Management System **DATE:** 8/1/99
SOURCE: USMC: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 8/1/99

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
NAS Brunswick	60087	1	0	0	0	0
NAS Jacksonville AIMD	44319	1	0	0	0	0
NAS Jacksonville	00207	1	0	0	0	0
NAS Keflavik AIMD	44335	1	0	0	0	0
NAS Key West AIMD	44320	1	0	0	0	0
NAS Key West	00213	1	0	0	0	0
NAS New Orleans RAIMD	44490	1	0	0	0	0
NAS Oceana AIMD	44327	1	0	0	0	0
NAS Oceana	60191	1	0	0	0	0
NAS Sigonella AIMD	44330	1	0	0	0	0
NAS Sigonella OPDET	44378	1	0	0	0	0
NAS Sigonella	62995	1	0	0	0	0
NAS Whidbey Island VAN OPDET	31179	1	0	0	0	0
NAS Willow Grove RAIMD	44493	1	0	0	0	0
NATTC Pensacola	63093	1	0	0	0	0
NAVAIRWARCENAD Pax	47608	1	0	0	0	0
NAVNDPOPCEN PAX	68520	1	0	0	0	0
NAVTEST WINGLANT	39782	1	0	0	0	0
NS Mayport AIMD	44326	1	0	0	0	0
NS Mayport	60201	1	0	0	0	0
NS Roosevelt Roads AIMD	44373	1	0	0	0	0
NS Roosevelt Roads	00389	1	0	0	0	0
RASWTC Willow Grove	68819	1	0	0	0	0
SERCC	32222	1	0	0	0	0
SIMA Norfolk CALRRC	39723	1	0	0	0	0
ABFC FMP ALPHA	49738	1	0	0	0	0
COMFAIR WESTPAC	09356	1	0	0	0	0
CV-63 USS Kitty Hawk	03363	1	0	0	0	0
CV-64 USS Constellation	03364	1	0	0	0	0
CVN 70 USS Carl Vinson	20993	1	0	0	0	0
CVN 72 USS Abraham Lincoln	21297	1	0	0	0	0
CVN 74 USS John C. Stennis	21847	1	0	0	0	0
CVN 76 USS Ronald Reagan	22178	0	0	0	1	0
FMP MMF CHARLIE	68704	1	0	0	0	0
LHA 1 USS Tarawa	20550	1	0	0	0	0
LHA 3 USS Belleau Wood	20633	1	0	0	0	0
LHA 5 USS Peleliu	20748	1	0	0	0	0
LHD 2 USS Essex	21533	1	0	0	0	0
LHD 4 USS Boxer	21808	1	0	0	0	0
LHD 6 USS Bonhomme Richard	22202	1	0	0	0	0
MCS 12 USS Inchon	20009	1	0	0	0	0
NAF Atsugi AIMD	44323	1	0	0	0	0
NAF Misawa AIMD	44331	1	0	0	0	0
NAMTRAGD North Island	66065	1	0	0	0	0
NAS Barber's Point AIMD	44312	1	0	0	0	0
NAS Corpus Christi AIMD	30244	1	0	0	0	0

NAS Fallon AIMD 44317 1 0 0 0 0 0
NAS JRB Fort Worth RAIMD 44487 1 0 0 0 0 0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy: Total Force Manpower Management System **DATE:** 8/1/99
SOURCE: USMC: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 8/1/99

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
NAS Lemoore AIMD	44321	1	0	0	0	0
NAS North Island AIMD	44326	1	0	0	0	0
NAS Point Mugu AIMD	44328	1	0	0	0	0
NAS Whidbey Island AIMD	44329	1	0	0	0	0
NAVWPN TESTRO	39787	1	0	0	0	0
NAWCWD Weapon Station White Sands	61762	1	0	0	0	0
NSUPFA Diego Garcia AIMD	44337	1	0	0	0	0
Santa Clara RAIMD	44489	1	0	0	0	0
TOTAL:		79	0	1	1	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
ATC DET, XXXXX					
USMC	0	10	CPL	6492	
ACTIVITY TOTAL:	0	10			
ATC DET B MACS 24, NAS Willow Grove, XXXXX					
SMCR	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-362, Kanohe, 31947					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-363, MCAS Kaneohe, 31947					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-461, MCAS New River, 09167					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-464, MCAS New River, 52841					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-772, NAS Willow Grove, 67828					

USMC	0	2	LCPL	6492
ACTIVITY TOTAL:	0	2		
HMLA-167, MCAS New River, 09167				
USMC	0	6	LCPL	6492
ACTIVITY TOTAL:	0	6		
HMLA-269, MCAS New River, 52841				
USMC	0	6	LCPL	6492
ACTIVITY TOTAL:	0	6		
HMLA-773 DET A, NAS Willow Grove, 67829				

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMLA-773, NAS Atlanta, 67826					
USMC	0	2	LCPL	6492	
SMCR	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	4			
HMLA-775 Det A, Belle Chase, 45238					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMM(T)-164, Camp Pendleton, 46623					
USMC	0	1	CPL	6492	
	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	3			
HMM-162, MCAS New River, 52841					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-261, MCAS New River, 09167					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-263, MCAS New River, 52841					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-264, MCAS New River, 09167					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-266, MCAS New River, 09167					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMM-365, MCAS New River, 52841 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-764, Edwards AFB, 67824 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-774, NAS Norfolk, 67825 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMT-301, MCAF Kaneohe, 31947 USMC	0	1	CPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
HMT-302, MCAS New River, 09132 USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
HMX-1, MCAF Quantico, 48099 USMC	0	5	CPL	6492	
	0	1	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	7			
KC-130 DETS, XXXXX USMC	0	12	LCPL	6492	
ACTIVITY TOTAL:	0	12			
MALS-13 (FW), MCAS Yuma, 31055 USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-14 (FW), MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
MALS-16 (RW), MCAS Miramar, 46623					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			
MALS-26 (RW), MCAS New River, 09167					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			
MALS-29 (RW), MCAS New River, 52841					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			
MALS-31 (FW), MCAS Beaufort, 09131					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-42 (RW), NAS Atlanta, 67245					
SMCR	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			
MALS-49 (RW), Fort Stewart, 67855					
USMC	0	1	GYSGT	6492	
	0	1	SGT	6492	
	0	1	SSGT	6492	
SMCR	0	1	CPL	6492	
	0	3	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	8			
MASS-2, Okinawa, 57079					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
VMA-223, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMA-231, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMA-542, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMAQ-1, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMAQ-3, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMAQ-4, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMAT-203, MCAS Cherry Point, 57080					
USMC	0	2	CPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA CV MAL Augment, XXXXX					
USMC	0	4	LCPL	6492	
ACTIVITY TOTAL:	0	4			
VMFA(AW)-224, MCAS Beaufort, 09131					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA(AW)-332, MCAS Beaufort, 09131					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA(AW)-533, MCAS Beaufort, 09131					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA-134, MCAS Atlanta, 67822					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMFA-232, MCAS Miramar, 46623					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-314, MCAS Miramar, 46623					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMFA-321, Andrews AFB, 67815					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMGR-234, Fort Worth, 67816					
USMC	0	2	LCPL	6492	
SMCR	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	4			
VMGR-452, Fort Stewart, 67855					
USMC	0	2	LCPL	6492	
SMCR	0	2	GYSGT	6492	
ACTIVITY TOTAL:	0	4			
VMGRT-253, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			
VMMT-204, MCAS New River, XXXXX					
USMC	0	2	CPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	3			
VMU-1, MCAS Yuma, 31055					
USMC	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			
VMU-2, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ATC DET A MACS 24, Fort Worth, XXXXX					
SMCR	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-361, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-366, Kanohe, 31947					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-462, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-463, Kanohe, 31947					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-465, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-466, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMH-769, Edwards AFB, 67821					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HMLA-169, Camp Pendleton, 31053					
USMC	0	6	LCPL	6492	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMLA-267, Camp Pendleton, 31053 USMC	0	6	LCPL	6492	
ACTIVITY TOTAL:	0	6			
HMLA-367, Camp Pendleton, 31053 USMC	0	6	LCPL	6492	
ACTIVITY TOTAL:	0	6			
HMLA-369, Camp Pendleton, 31053 USMC	0	6	LCPL	6492	
ACTIVITY TOTAL:	0	6			
HMLA-775, MCAS Camp Pendleton, 46615 USMC	0	2	LCPL	6492	
SMCR	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	4			
HMM-161, MCAS Miramar, 46623 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-163, MCAS Miramar, 46623 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-165, MCAS Miramar, 31053 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-166, MCAS Miramar, 31053 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-262, MCAS Okinawa, 57079 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMM-265, MCAS Okinawa, 57079 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-268, Camp Pendleton, 31053 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-364, Camp Pendleton, 31053 USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMT-303, Camp Pendleton, 55176 USMC	0	2	CPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	3			
MALS-11 (FW), MCAS Miramar, 46623 USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
MALS-12 (FW), Iwakuni, 41975 USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
MALS-36 (RW), MCAS Okinawa, 57079 USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-39 (RW), Camp Pendleton, 31053					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
	0	3	LCPL	6492	
	0	2	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	8			
MALS-41 (FW), Fort Worth, 67837					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
SMCR	0	1	CPL	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
MALS-46 (FW), MCAS Miramar, 67823					
SMCR	0	2	CPL	6492	
	0	1	GYSGT	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
MALSE (RW), MCAF Kaneohe, 31947					
USMC	0	2	CPL	6492	
	0	3	LCPL	6492	
	0	1	SGT	6492	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	0	7			
Marine AVN WPNS & Tactics SQD, Yuma, 55167					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VAQ-129, NAS Whidbey Island, 09995					
USMC	0	1	CPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMA-211, MCAS Yuma, 31055					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMA-214, MCAS Yuma, 31055					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMA-311, MCAS Yuma, 31055					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMA-513, MCAS Yuma, 31055					
USMC	0	1	CPL	6492	
	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	3			
VMFA(AW)-121, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA(AW)-225, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA(AW)-242, MCAS Miramar, 46623					
USMC	0	2	LCPL	6492	
ACTIVITY TOTAL:	0	2			
VMFA-112, Fort Worth, 67814					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-134, MCAS Miramar, 81662					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMFA-212, Iwakuni, 41975					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMFA-323, MCAS Miramar, 46623					
USMC	0	1	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
VMFAT-101, MCAS Miramar, 52817					
USMC	0	2	LCPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	3			
OPERATIONAL ACTIVITIES - NAVY					
VMAQ-2, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6492	
	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	2			
HELSUPPRON 5, 44310					
ACDU	0	1	AT2	6673	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
4TH MAW HQ, New Orleans, 67811					
SMCR	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
COMNAVAIRLANT, Norfolk, 44481					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MASS-1, MCAS Cherry Point, 57080					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
MAW Calibration Lab, XXXXX					
USMC	0	18	CPL	6492	
	0	6	GYSGT	6492	
	0	18	LCPL	6492	
	0	12	SGT	6492	
	0	3	SSGT	6492	
	0	6	SSGT	6492	9954
ACTIVITY TOTAL:	0	63			
MC PERS Dept of Navy, Blount Island, 45741					
USMC	0	1	CPL	6492	
	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	2			
COMNAVAIRPAC, San Diego, 30248					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
MASS-3, Camp Pendleton, 31053					
USMC	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
MCAS Iwakuni, 62613					
USMC	0	1	CPL	6492	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - NAVY					
ABFC FMP HOTEL, 68822					
TAR	0	2	AT1	6718	
	0	2	AT2	6673	
	0	1	AT2	6673	9527
	0	1	AT2	6718	9526
	0	1	AT3	6673	
SELRES	0	2	AT3	6673	
ACTIVITY TOTAL:	0	9			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AIMD Sigonella Detachment Rota, 44374					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	
	0	3	AT3	6673	9527
SELRES	0	1	AT2	6673	
	0	2	AT3	6673	
ACTIVITY TOTAL:	0	8			
AIR-6.0 IND NWCF, 31304					
ACDU	0	1	AT1	6673	
	0	2	AT1	6718	
ACTIVITY TOTAL:	0	3			
CV 67 USS John F. Kennedy, 03367					
ACDU	0	1	AT2	6718	
	0	4	ATAN	6673	
	0	1	PO1	6673	
	0	1	PO2	6673	9527
	0	2	PO3	6673	
TAR	0	1	AT1	6718	
	0	1	AT2	6718	
	0	1	PO2	6673	
	0	1	PO3	6673	
SELRES	0	2	PO3	6673	
CV 67 USS John F. Kennedy, 03367, FY01 Increment					
ACDU	0	1	ET1	1589	9503
ACTIVITY TOTAL:	0	16			
CVN 65 USS Enterprise, 03365					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	4	PO3	6673	
ACTIVITY TOTAL:	0	14			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CVN 68 USS Nimitz, 03368					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	
	0	2	AT2	6718	
	0	2	AT3	6673	
	0	3	ATAN	6673	
	0	1	ET1	1589	
	0	1	ET2	1589	9526
	0	1	ET3	1589	
CVN 68 USS Nimitz, 03368, FY01 Increment					
ACDU	0	1	ET1	1589	9503
ACTIVITY TOTAL:	0	13			
CVN 69 USS Dwight D. Eisenhower, 03369					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	1	PO2	6673	9527
	0	5	PO3	6673	
ACTIVITY TOTAL:	0	16			
CVN 71 USS Theodore Roosevelt, 21247					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	2	PO2	6673	
	0	5	PO3	6673	
ACTIVITY TOTAL:	0	16			
CVN 73 USS George Washington, 21412					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
ACTIVITY TOTAL:	0	3			
CVN 75 USS Harry S. Truman, 21853					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	3	AT1	6673	
	0	1	AT1	6718	
	0	3	AT2	6673	
	0	2	AT2	6718	
	0	5	AT3	6673	
	0	2	ATAN	6673	
	0	1	ET1	1589	
	0	1	ET1	1589	9503
ACTIVITY TOTAL:	0	18			
LHA 2 USS Saipan, 20632					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHA 4 USS Nassau, 20725					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	1	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	5			
LHD 1 USS Wasp, 21560					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHD 3 USS Kearsarge, 21700					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHD 5 USS Bataan, 21879					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHD 7 USS Iwo Jima, 23027, FY01 Increment					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
NADOC Detachment Sigonella, 39307					
ACDU	0	1	AT1	6673	
ACTIVITY TOTAL:	0	1			
NADOC PAX Detachment Rota, 35936					
ACDU	0	1	AT1	6673	
ACTIVITY TOTAL:	0	1			
NAF Washington DC RAIMD, 44492					
ACDU	0	1	ATAN	6673	
TAR	0	1	AT2	6718	
	0	1	AT3	6673	9527
ACTIVITY TOTAL:	0	3			
NAS Atlanta RAIMD, 44486					
TAR	0	1	AT1	6673	
	0	1	AT2	6673	
	0	1	AT3	6673	
ACTIVITY TOTAL:	0	3			
NAS Brunswick, 60087					
ACDU	0	1	ET2	1589	9527
ACTIVITY TOTAL:	0	1			
NAS Brunswick AIMD, 44314					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	
	0	3	AT2	6718	
	0	4	AT3	6673	
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	10			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Jacksonville, 00207					
ACDU	0	1	ET2	1589	
ACTIVITY TOTAL:	0	1			
NAS Jacksonville AIMD, 44319					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	
	0	1	AT2	6673	9526
	0	1	AT2	6673	9527
	0	8	AT2	6718	
	0	2	AT2	6718	9526
	0	1	AT2	6718	9527
	0	9	AT3	6673	
	0	1	AT3	6673	9527
	0	5	ATAN	6673	
ACTIVITY TOTAL:	0	30			
NAS Keflavik AIMD, 44335					
ACDU	0	2	AT2	6673	
	0	2	AT3	6673	
	0	1	ATAN	6673	
SELRES	0	1	AT3	6673	
ACTIVITY TOTAL:	0	6			
NAS Keflavik AIMD, 44335					
ACDU	0	1	AT1	6718	6673
	0	1	AT2	6718	
ACTIVITY TOTAL:	0	2			
NAS Key West, 00213					
ACDU	0	1	ET2	1589	
ACTIVITY TOTAL:	0	1			
NAS Key West AIMD, 44320					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	
	0	1	AT2	6718	
	0	1	AT3	6673	
SELRES	0	1	AT2	6673	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SELRES	0	2	AT2	6718	
	0	1	AT3	6673	
ACTIVITY TOTAL:	0	8			
NAS New Orleans RAIMD, 44449					
TAR	0	1	AT1	6718	
	0	1	AT2	6718	9526
	0	3	AT3	6673	
	0	1	AT3	6673	9527
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	7			
NAS Oceana, 60191					
ACDU	0	1	ET1	1589	
	0	1	ET1	1589	9527
ACTIVITY TOTAL:	0	2			
NAS Oceana AIMD, 44327					
ACDU	0	1	AT2	6673	
ACTIVITY TOTAL:	0	1			
NAS Sigonella, 62995					
ACDU	0	1	ET2	1589	
ACTIVITY TOTAL:	0	1			
NAS Sigonella AIMD, 44330					
ACDU	0	1	AT1	6673	
	0	1	AT1	6718	
	0	2	AT2	6673	
	0	1	AT2	6718	
	0	2	AT3	6673	
	0	2	ATAN	6673	
ACTIVITY TOTAL:	0	9			
NAS Sigonella OPDET, 44378					
ACDU	0	2	AT2	6718	
ACTIVITY TOTAL:	0	2			
NAS Whidbey Island VAN OPDET, 31179					
ACDU	0	5	AT2	6718	
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Willow Grove RAIMD, 44493					
TAR	0	1	AT1	6718	
	0	2	AT2	6673	
	0	2	AT3	6673	
	0	3	ATAN	6673	
ACTIVITY TOTAL:	0	8			
NATT C Pensacola, 63093					
ACDU	0	1	ETC	1589	9512
ACTIVITY TOTAL:	0	1			
NAVAIRWARCENAD PAX, 47608					
ACDU	0	1	ET1	1589	
ACTIVITY TOTAL:	0	1			
NAVNDPOPCEN PAX, 68520					
ACDU	0	1	AT1	6673	
	0	2	AT1	6718	
ACTIVITY TOTAL:	0	3			
NAVSTA Mayport, 60201					
ACDU	0	2	ET3	1589	
ACTIVITY TOTAL:	0	2			
NAVSTA Roosevelt Roads, 00389					
ACDU	0	1	ET1	1589	
	0	1	ET2	1589	
	0	1	ET3	1589	
ACTIVITY TOTAL:	0	3			
NAVTEST WINGLANT, 39782					
ACDU	0	3	AT1	6673	
	0	2	AT2	6673	
	0	6	AT2	6718	
	0	2	AT3	6673	
	0	5	ATAN	6673	
ACTIVITY TOTAL:	0	18			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NS Mayport AIMD, 44326					
ACDU	0	1	AT2	6718	
ACTIVITY TOTAL:	0	1			
NS Roosevelt Roads AIMD, 44373					
ACDU	0	1	AT1	6718	
	0	3	AT2	6673	
	0	2	AT2	6718	
	0	2	AT3	6673	
	0	1	AT3	6673	9527
ACTIVITY TOTAL:	0	9			
RASWTC Willow Grove, 68819					
TAR	0	1	AT2	6673	
ACTIVITY TOTAL:	0	1			
SERCC, 32222					
ACDU	0	1	AT1	6673	
	0	3	AT1	6718	
	0	4	AT2	6673	
	0	1	AT2	6673	9526
	0	3	AT2	6718	
	0	1	AT2	6718	9527
	0	8	AT3	6673	
	0	2	ATAN	6673	
	0	2	ETC	1589	
	0	4	ET1	1589	
	0	11	ET2	1589	
TAR	0	1	ET1	1589	
	0	1	ET2	1589	
SELRES	0	1	APO2	6673	
ACTIVITY TOTAL:	0	43			
SIMA Norfolk CALR, 39723					
ACDU	0	3	AT1	6673	
	0	6	AT2	6673	
	0	9	AT3	6673	
	0	10	ATAN	6673	
ACTIVITY TOTAL:	0	28			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SIMA Norfolk CALRRC, 39723					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	1	AT2	6718	9526
	0	2	AT2	6718	9527
ACTIVITY TOTAL:	0	6			
ABFC FMP ALPHA, 49738					
TAR	0	2	AT1	6718	
	0	2	AT2	6673	
	0	1	AT2	6673	9527
	0	1	AT2	6718	9526
	0	1	AT3	6673	
SELRES	0	1	AT1	6673	
	0	2	AT3	6673	
ACTIVITY TOTAL:	0	10			
COMFAIR WESTPAC, 09356					
SELRES	0	6	AT1	6673	
ACTIVITY TOTAL:	0	6			
CV 63 USS Kitty Hawk, 03363					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	3	AT3	6673	
	0	4	ATAN	6673	
	0	1	ET1	1589	
	0	1	ET1	1589	9503
	0	1	ET2	1589	
	0	1	ET3	1589	
ACTIVITY TOTAL:	0	14			
CV 64 USS Constellation, 03364					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	1	PO2	6673	9527
	0	5	PO3	6673	
ACTIVITY TOTAL:	0	16			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CVN 70 USS Carl Vinson, 20993					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	3	PO3	6673	
ACTIVITY TOTAL:	0	13			
CVN 72 USS Abraham Lincoln, 21297					
ACDU	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	4	PO3	6673	
ACTIVITY TOTAL:	0	14			
CVN 74 USS John C. Stennis, 21847					
ACDU	0	3	APO3	6673	
	0	1	AT1	6718	
	0	2	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	
	0	1	PO3	6673	
ACTIVITY TOTAL:	0	14			
CVN 76 USS Ronald Reagan, 22178, FY02 Increment					
ACDU	0	3	AT1	6673	
	0	1	AT1	6718	
	0	3	AT2	6673	
	0	2	AT2	6718	
	0	5	AT3	6673	
	0	2	ATAN	6673	
ACTIVITY TOTAL:	0	16			
FMP MMF CHARLIE, 68704					
ACDU	0	2	AT1	6673	
	0	1	AT1	6718	
	0	2	AT2	6673	
	0	1	AT2	6673	9527

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	AT2	6718	9526
	0	3	AT3	6673	
ACTIVITY TOTAL:	0	10			
LHA 1 USS Tarawa, 20550					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHA 3 USS Belleau Wood, 20633					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	1	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	5			
LHA 5 USS Peleliu, 20748					
ACDU	0	1	AT1	6718	
	0	2	AT2	6673	
	0	1	AT3	6673	
	0	1	AT3	6673	9526
ACTIVITY TOTAL:	0	5			
LHD 2 USS Essex, 21533					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHD 4 USS Boxer, 21808					
ACDU	0	1	AT1	6718	
	0	2	PO2	6673	
	0	2	PO3	6673	
	0	1	PO3	6673	9526
ACTIVITY TOTAL:	0	6			
LHD 6 USS Bonhomme Richard, 32222					
ACDU	0	1	AT1	6718	
	0	1	AT2	6673	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	AT3	6673	9526
ACTIVITY TOTAL:	0	3			
MCS 12 USS Inchon, 20009					
ACDU	0	1	AT1	6673	
	0	1	AT3	6673	9526
TAR	0	1	AT2	6673	
ACTIVITY TOTAL:	0	3			
NAF Adak, 60462					
ACDU	0	1	ET1	1589	
ACTIVITY TOTAL:	0	1			
NAF Atsugi AIMD, 44323					
ACDU	0	1	AT1	6718	
	0	3	AT2	6718	
	0	3	AT3	6673	
	0	1	ATAN	6673	
SELRES	0	1	AT2	6673	
	0	1	AT3	6673	
ACTIVITY TOTAL:	0	10			
NAF Misawa AIMD, 44331					
ACDU	0	1	AT1	6718	
	0	2	AT2	6673	
	0	1	AT3	6673	
	0	1	AT3	6673	9527
SELRES	0	2	AT2	6673	
	0	1	AT2	6718	
ACTIVITY TOTAL:	0	8			
NAMTRAGD North Island, 66065					
ACDU	0	2	AT1	6673	9502
ACTIVITY TOTAL:	0	2			
NAS Barber's Point AIMD, 44312					
ACDU	0	1	AT1	6673	
	0	1	AT1	6718	
	0	1	AT1	6718	9590

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	9	AT2	6673	
	0	4	AT2	6718	
	0	1	AT3	6673	
ACTIVITY TOTAL:	0	17			
NAS Corpus Christi AIMD, 30244					
ACDU	0	2	AT1	6673	
ACTIVITY TOTAL:	0	2			
NAS Fallon AIMD, 44317					
ACDU	0	1	AT1	6718	
	0	2	AT2	6673	
	0	1	AT2	6673	9527
	0	1	AT2	6718	
	0	1	AT3	6673	
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	7			
NAS JRB Fort Worth, 44487					
TAR	0	1	AT1	6673	
	0	5	AT2	6673	
	0	4	AT3	6673	
ACTIVITY TOTAL:	0	10			
NAS JRB Fort Worth RAIMD, 44487					
TAR	0	2	AT1	6718	
	0	2	AT2	6718	
ACTIVITY TOTAL:	0	4			
NAS Lemoore AIMD, 44321					
ACDU	0	1	APO2	6673	
	0	1	AT1	6673	9503
	0	1	AT1	6718	
	0	1	AT2	6673	
	0	1	AT2	6718	
	0	2	AT3	6673	
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	8			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS North Island AIMD, 44326					
ACDU	0	2	AT1	6673	
	0	1	AT1	6718	
	0	1	AT2	6673	
	0	6	AT2	6718	
	0	8	AT3	6673	
	0	8	AT3	6673	9527
ACTIVITY TOTAL:	0	26			
NAS Point Mugu AIMD, 44328					
ACDU	0	1	AT1	6673	
	0	1	AT1	6718	
	0	1	AT1	6718	6673
	0	6	AT2	6673	
	0	1	AT2	6673	9526
	0	1	AT2	6718	6673
	0	4	AT3	6673	
	0	1	AT3	6673	9526
	0	2	ATAN	6673	
ACTIVITY TOTAL:	0	18			
NAS Whidbey Island AIMD, 44329					
ACDU	0	1	AT1	6673	
	0	1	AT1	6718	
	0	3	AT2	6673	
	0	2	AT3	6673	
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	8			
NAWPN TESTRO, 39787					
ACDU	0	1	AT1	6673	
	0	3	AT2	6673	
	0	1	AT2	6673	9526
	0	1	AT2	6718	9527
	0	1	ATAN	6673	
SELRES	0	2	ATAN	6673	
NAWPN TESTRO, 39787, FY01 Increment					
ACDU	0	1	AT2	6673	
ACTIVITY TOTAL:	0	10			
NAWCWD Weapon Station White Sands, 61762					
ACDU	0	1	AT2	6673	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NSUPFA Diego Garcia AIMD, 44337					
ACDU	0	1	AT1	6673	
	0	1	AT2	6673	
	0	1	AT2	6718	
	0	2	AT3	6673	
TAR	0	6	AT2	6673	
SELRES	0	2	AT2	6718	
ACTIVITY TOTAL:	0	13			
Santa Clara RAIMD, 44489					
TAR	0	1	AT3	6673	
	0	1	ATAN	6673	
ACTIVITY TOTAL:	0	2			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6492		51		0		0		0		0		0
GYSGT	6492		14		0		0		0		0		0
LCPL	6492		160		0		0		0		0		0
SGT	6492		27		0		0		0		0		0
SSGT	6492		8		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SMCR													
CPL	6492		12		0		0		0		0		0
GYSGT	6492		4		0		0		0		0		0
LCPL	6492		26		0		0		0		0		0
SGT	6492		17		0		0		0		0		0
SSGT	6492		15		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - USMC													
CPL	6492		1		0		0		0		0		0
LCPL	6492		1		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - ACDU													
AT2	6673		1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6492		20		0		0		0		0		0
GYSGT	6492		11		0		0		0		0		0
LCPL	6492		18		0		0		0		0		0
SGT	6492		12		0		0		0		0		0
SSGT	6492		3		0		0		0		0		0
SSGT	6492	9954	6		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR													
GYSGT	6492		1		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
APO2	6673		1		0		0		0		0		0
APO3	6673		3		0		0		0		0		0
AT1	6673		27		0		0		3		0		0
AT1	6673	9502	2		0		0		0		0		0
AT1	6673	9503	1		0		0		0		0		0
AT1	6718		45		0		1		1		0		0
AT1	6718	6673	2		0		0		0		0		0
AT1	6718	9590	1		0		0		0		0		0
AT2	6673		62		0		1		3		0		0
AT2	6673	9526	4		0		0		0		0		0
AT2	6673	9527	3		0		0		0		0		0
AT2	6718		74		0		0		2		0		0
AT2	6718	6673	1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
AT2	6718 9526		4		0		0		0		0		0
AT2	6718 9527		5		0		0		0		0		0
AT3	6673		77		0		0		5		0		0
AT3	6673 9526		4		0		0		0		0		0
AT3	6673 9527		14		0		0		0		0		0
ATAN	6673		75		0		0		2		0		0
ETC	1589		2		0		0		0		0		0
ETC	1589 9512		1		0		0		0		0		0
ET1	1589		11		0		0		0		0		0
ET1	1589 9503		9		0		2		0		0		0
ET1	1589 9527		1		0		0		0		0		0
ET2	1589		16		0		0		0		0		0
ET2	1589 9526		1		0		0		0		0		0
ET2	1589 9527		1		0		0		0		0		0
ET3	1589		5		0		0		0		0		0
PO1	6673		8		0		0		0		0		0
PO2	6673		26		0		2		0		0		0
PO2	6673 9527		3		0		0		0		0		0
PO3	6673		45		0		2		0		0		0
PO3	6673 9526		9		0		1		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
AT1	6673		2		0		0		0		0		0
AT1	6718		9		0		0		0		0		0
AT2	6673		20		0		0		0		0		0
AT2	6673 9527		2		0		0		0		0		0
AT2	6718		4		0		0		0		0		0
AT2	6718 9526		3		0		0		0		0		0
AT3	6673		13		0		0		0		0		0
AT3	6673 9527		2		0		0		0		0		0
ATAN	6673		5		0		0		0		0		0
ET1	1589		1		0		0		0		0		0
ET2	1589		1		0		0		0		0		0
PO2	6673		1		0		0		0		0		0
PO3	6673		1		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
APO2	6673		1		0		0		0		0		0
AT1	6673		7		0		0		0		0		0
AT2	6673		5		0		0		0		0		0
AT2	6718		5		0		0		0		0		0
AT3	6673		9		0		0		0		0		0
ATAN	6673		2		0		0		0		0		0
PO3	6673		2		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY00 OFF ENL	FY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL
SUMMARY TOTALS:							
USMC OPERATIONAL ACTIVITIES - USMC							
	260		0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR							
	74		0	0	0	0	0
NAVY OPERATIONAL ACTIVITIES - USMC							
	2		0	0	0	0	0
NAVY OPERATIONAL ACTIVITIES - ACDU							
	1		0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - USMC							
	70		0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SMCR							
	1		0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - ACDU							
	543		0	9	16	0	0
NAVY FLEET SUPPORT ACTIVITIES - TAR							
	64		0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - SELRES							
	31		0	0	0	0	0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY00 OFF ENL	FY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL
GRAND TOTALS:							
USMC - USMC		330	0	0	0	0	0
USMC - SMCR		75	0	0	0	0	0
NAVY - USMC		2	0	0	0	0	0
NAVY - ACDU		544	0	9	16	0	0
NAVY - TAR		64	0	0	0	0	0
NAVY - SELRES		31	0	0	0	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
HMH-362, MCAF Kaneohe, 31947, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-363, MCAF Kaneohe, 31947, FY06 Increment USMC					
ACTIVITY TOTAL:	0	1			
HMM(T)-164, Camp Pendleton, 46623, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-162, MCAS New River, 52841, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-261, MCAS New River, 09167, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-263, MCAS New River, 52841, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-264, MCAS New River, 09167, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-266, MCAS New River, 09167, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-365, MCAS New River, 52841, FY06 Increment USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMT-301, MCAF Kaneohe, 31947, FY04 Increment					

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	CPL	6492	
	0	1	SGT	6492	
ACTIVITY TOTAL:	0	2			
HMH-366, MCAF Kaneohe, 31947, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMH-463, MCAF Kaneohe, 31947, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-161, MCAS Miramar, 46623, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-163, MCAS Miramar, 46623, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-165, MCAS Miramar, 31053, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-166, MCAS Miramar, 31053, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-262, MCAS Okinawa, 57079, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-265, MCAS Okinawa, 57079, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
HMM-268, Camp Pendleton, 31053, FY06 Increment					
USMC	0	1	LCPL	6492	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	1			
HMM-364, Camp Pendleton, 31053, FY06 Increment					
USMC	0	1	LCPL	6492	
ACTIVITY TOTAL:	0	1			
MALS-46 (FW), MCAS Miramar, 67823, FY01 Increment					
SMCR	0	2	CPL	6492	
	0	1	GYSGT	6492	
	0	2	LCPL	6492	
	0	2	SGT	6492	
	0	2	SSGT	6492	
ACTIVITY TOTAL:	0	9			
FLEET SUPPORT ACTIVITIES - USMC					
4TH MAW HQ, New Orleans, 67811, FY03 Increment					
SMCR	0	1	GYSGT	6492	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - NAVY					
CV 64 USS Constellation, 03364, FY03 Increment					
ACDU	0	1	AT2	6718	
	0	4	ATAN	6673	
	0	1	ET1	1589	9503
	0	1	PO1	6673	
	0	1	PO2	6673	9527
	0	5	PO3	6673	
ACTIVITY TOTAL:	0	13			
NAVWPN TESTRO, 39787, FY01 Increment					
ACDU	0	1	AT2	6673	9526
ACTIVITY TOTAL:	0	1			
NSUPFA Diego Garcia AIMD, 44337, FY02 Increment					
ACDU	0	1	AT1	6673	
ACTIVITY TOTAL:	0	1			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6492		1		0		0		0		0		-1
SGT	6492		1		0		0		0		0		-1
USMC OPERATIONAL ACTIVITIES - SMCR													
CPL	6492		2		0		-2		0		0		0
GYSGT	6492		1		0		-1		0		0		0
LCPL	6492		2		0		-2		0		0		0
SGT	6492		2		0		-2		0		0		0
SSGT	6492		2		0		-2		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR													
GYSGT	6492		1		0		0		0		-1		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AT1	6673		1		0		0		-1		0		0
AT2	6673	9526	1		0		-1		0		0		0
AT2	6718		2		0		0		0		-1		0
ATAN	6673		4		0		0		0		-4		0
ET1	1589	9503	1		0		0		0		-1		0
PO1	6673		1		0		0		0		-1		0
PO2	6673	9527	1		0		0		0		-1		0
PO3	6673		5		0		0		0		-5		0

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY00 OFF ENL	FY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL
SUMMARY TOTALS:							
USMC OPERATIONAL ACTIVITIES - USMC							
	2		0	0	0	0	-2
USMC OPERATIONAL ACTIVITIES - SMCR							
	9		0	-9	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SMCR							
	1		0	0	0	-1	0
NAVY FLEET SUPPORT ACTIVITIES - ACDU							
	16		0	-1	-1	-13	0
GRAND TOTALS:							
USMC - USMC							
	2		0	0	0	0	-2
USMC - SMCR							
	10		0	-9	0	-1	0
NAVY - ACDU							
	16		0	-1	-1	-13	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY0		FY01		FY02		FY03		FY04	
		OFF	ENL										

TRAINING ACTIVITY, LOCATION, UIC: AIR MAINT TRAGRDPDET NORIS, North Island, California, 66065

INSTRUCTOR BILLETS

ACDU

AT1	6673 9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRUDET Norfolk, Norfolk, Virginia, 66046

INSTRUCTOR BILLETS

ACDU

AT1	6673 9502	0	1	0	1	0	1	0	1	0	1	0	1
AT2	6673 9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2

TRAINING ACTIVITY, LOCATION, UIC: NTTU Keesler, AFB, Biloxi, Mississippi, 35970

INSTRUCTOR BILLETS

USMC

GYSGT	6492	0	1	0	1	0	1	0	1	0	1	0	1
SGT	6492	0	3	0	3	0	3	0	3	0	3	0	3
SSGT	6492	0	8	0	8	0	8	0	8	0	8	0	8

ACDU

AT1	6673 9502	0	11	0	11	0	11	0	11	0	11	0	11
AT1	6718 9502	0	7	0	7	0	7	0	7	0	7	0	7
AT2	6673 9502	0	5	0	5	0	5	0	5	0	5	0	5
ETC	1589 9502	0	3	0	3	0	3	0	3	0	3	0	3
ET1	1589 9502	0	11	0	11	0	11	0	11	0	11	0	11
ET2	1589 9502	0	3	0	3	0	3	0	3	0	3	0	3

SUPPORT BILLETS

ACDU

AT1	6673	0	1	0	1	0	1	0	1	0	1	0	1
AT2	6673	0	1	0	1	0	1	0	1	0	1	0	1
ET2	1589	0	1	0	1	0	1	0	1	0	1	0	1

TOTAL:		0	55	0	55	0	55	0	55	0	55	0	55
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II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY0		FY01		FY02		FY03		FY04	
		OFF	ENL										
NTTU Keesler, AFB, Biloxi, Mississippi, 35970													
	USMC		35.4		35.4		35.4		35.4		35.4		35.1
	NAVY		50.7		51.6		54.4		55.5		52.9		51.8
SUMMARY TOTALS:													
	USMC		35.4		35.4		35.4		35.4		35.4		35.1
	NAVY		50.7		51.6		54.4		55.5		52.9		51.8
GRAND TOTALS:													
		86.1		87.0		89.8		90.9		88.3		86.9	

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00		FY01		FY02		FY03		FY04		
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	
c. OFFICER - USMC				Not Applicable										
d. ENLISTED - USMC														
Operational Billets USMC and AR														
CPL	6492		52	0	52	0	52	0	52	0	52	-1	51	
GYSGT	6492		14	0	14	0	14	0	14	0	14	0	14	
LCPL	6492		161	0	161	0	161	0	161	0	161	0	161	
SGT	6492		27	0	27	0	27	0	27	0	27	-1	26	
SSGT	6492		8	0	8	0	8	0	8	0	8	0	8	
Fleet Support Billets USMC and AR														
CPL	6492		20	0	20	0	20	0	20	0	20	0	20	
GYSGT	6492		11	0	11	0	11	0	11	0	11	0	11	
LCPL	6492		18	0	18	0	18	0	18	0	18	0	18	
SGT	6492		12	0	12	0	12	0	12	0	12	0	12	
SSGT	6492		3	0	3	0	3	0	3	0	3	0	3	
SSGT	6492	9954	6	0	6	0	6	0	6	0	6	0	6	
Staff Billets USMC and AR														
GYSGT	6492		1	1	2	1	3	1	4	1	5	1	6	
SGT	6492		3	3	6	3	9	3	12	3	15	3	18	
SSGT	6492		8	8	16	8	24	8	32	8	40	8	48	
Chargeable Student Billets USMC and AR														
			36	0	36	0	36	0	36	0	36	-1	35	
SMCR Billets														
CPL	6492		12	0	12	-2	10	0	10	0	10	0	10	
GYSGT	6492		5	0	5	-1	4	0	4	-1	3	0	3	
LCPL	6492		26	0	26	-2	24	0	24	0	24	0	24	
SGT	6492		17	0	17	-2	15	0	15	0	15	0	15	
SSGT	6492		15	0	15	-2	13	0	13	0	13	0	13	
TOTAL USMC ENLISTED BILLETS:														
Operational				262	0	262	0	262	0	262	0	262	-2	260
Fleet Support				70	0	70	0	70	0	70	0	70	0	70
Staff				12	12	24	12	36	12	48	12	60	12	72

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00		FY01		FY02		FY03		FY04	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Chargeable Student			36	0	36	0	36	0	36	0	36	-1	35
SMCR			75	0	75	-9	66	0	66	-1	65	0	65
a. OFFICER - USN				Not Applicable									
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
AT2	6673		1	0	1	0	1	0	1	0	1	0	1
Fleet Support Billets ACDU and TAR													
APO2	6673		1	0	1	0	1	0	1	0	1	0	1
APO3	6673		3	0	3	0	3	0	3	0	3	0	3
AT1	6673		29	0	29	0	29	2	31	0	31	0	31
AT1	6673	9502	2	0	2	0	2	0	2	0	2	0	2
AT1	6673	9503	1	0	1	0	1	0	1	0	1	0	1
AT1	6718		54	0	54	1	55	1	56	0	56	0	56
AT1	6718	6673	2	0	2	0	2	0	2	0	2	0	2
AT1	6718	9590	1	0	1	0	1	0	1	0	1	0	1
AT2	6673		82	0	82	1	83	3	86	0	86	0	86
AT2	6673	9526	4	0	4	-1	3	0	3	0	3	0	3
AT2	6673	9527	5	0	5	0	5	0	5	0	5	0	5
AT2	6718		78	0	78	0	78	2	80	-1	79	0	79
AT2	6718	6673	1	0	1	0	1	0	1	0	1	0	1
AT2	6718	9526	7	0	7	0	7	0	7	0	7	0	7
AT2	6718	9527	5	0	5	0	5	0	5	0	5	0	5
AT3	6673		90	0	90	0	90	5	95	0	95	0	95
AT3	6673	9526	4	0	4	0	4	0	4	0	4	0	4
AT3	6673	9527	16	0	16	0	16	0	16	0	16	0	16
ATAN	6673		80	0	80	0	80	2	82	-4	78	0	78
ETC	1589		2	0	2	0	2	0	2	0	2	0	2
ETC	1589	9512	1	0	1	0	1	0	1	0	1	0	1
ET1	1589		12	0	12	0	12	0	12	0	12	0	12
ET1	1589	9503	9	0	9	2	11	0	11	-1	10	0	10
ET1	1589	9527	1	0	1	0	1	0	1	0	1	0	1
ET2	1589		17	0	17	0	17	0	17	0	17	0	17
ET2	1589	9526	1	0	1	0	1	0	1	0	1	0	1
ET2	1589	9527	1	0	1	0	1	0	1	0	1	0	1
ET3	1589		5	0	5	0	5	0	5	0	5	0	5
PO1	6673		8	0	8	0	8	0	8	-1	7	0	7
PO2	6673		27	0	27	2	29	0	29	0	29	0	29
PO2	6673	9527	3	0	3	0	3	0	3	-1	2	0	2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00		FY01		FY02		FY03		FY04	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
PO3	6673		46	0	46	2	48	0	48	-5	43	0	43
PO3	6673	9526	9	0	9	1	10	0	10	0	10	0	10
Staff Billets ACDU and TAR													
AT1	6673		1	1	2	1	3	1	4	1	5	1	6
AT1	6673	9502	14	14	28	14	42	14	56	14	70	14	84
AT1	6718	9502	7	7	14	7	21	7	28	7	35	7	42
AT2	6673		1	1	2	1	3	1	4	1	5	1	6
AT2	6673	9502	6	6	12	6	18	6	24	6	30	6	36
ETC	1589	9502	3	3	6	3	9	3	12	3	15	3	18
ET1	1589	9502	11	11	22	11	33	11	44	11	55	11	66
ET2	1589		1	1	2	1	3	1	4	1	5	1	6
ET2	1589	9502	3	3	6	3	9	3	12	3	15	3	18
Chargeable Student Billets ACDU and TAR													
			51	1	52	3	55	1	56	-3	53	-1	52
SELRES Billets													
APO2	6673		1	0	1	0	1	0	1	0	1	0	1
AT1	6673		7	0	7	0	7	0	7	0	7	0	7
AT2	6673		5	0	5	0	5	0	5	0	5	0	5
AT2	6718		5	0	5	0	5	0	5	0	5	0	5
AT3	6673		9	0	9	0	9	0	9	0	9	0	9
ATAN	6673		2	0	2	0	2	0	2	0	2	0	2
PO3	6673		2	0	2	0	2	0	2	0	2	0	2
TOTAL USN ENLISTED BILLETS:													
Operational				1	0	1	0	1	0	1	0	1	0
Fleet Support				607	0	607	8	615	15	630	-13	617	0
Staff				47	47	94	47	141	47	188	47	235	47
Chargeable Student				51	1	52	3	55	1	56	-3	53	-1
SELRES				31	0	31	0	31	0	31	0	31	0

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-198-2011, Advanced Calibration Technician

COURSE LENGTH: 11.8 Weeks

ATTRITION FACTOR: Navy: 10% USMC: 0%

TOUR LENGTH: Navy: 36 Months

BACKOUT FACTOR: 0.24

TRAINING ACTIVITY		ACDU/TAR SOURCE	CFY00		FY01		FY02		FY03		FY04	
		SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NTTU Keesler, AFB, Biloxi, Mississippi												
	USMC	USMC		24		24		24		24		24
		SMCR		2		2		2		2		2
	NAVY	ACDU		18		18		20		19		19
		TAR		3		3		3		3		3
		SELRES		1		0		1		0		1
		TOTAL:		48		47		50		48		49

CIN, COURSE TITLE: C-198-2012, Aviation Basic Calibration Technician Pipeline

COURSE LENGTH: 19.0 Weeks

ATTRITION FACTOR: Navy: 10% USMC: 0%

TOUR LENGTH: Navy: 36 Months

BACKOUT FACTOR: 0.38

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY00		FY01		FY02		FY03		FY04	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NTTU Keesler, AFB, Biloxi, Mississippi												
	USMC	USMC		84		84		84		84		83
		SMCR		8		7		7		7		7
	NAVY	ACDU		106		113		116		109		106
		TAR		11		11		11		11		11
		SELRES		2		2		2		2		2
		TOTAL:		211		217		220		213		209

CIN, COURSE TITLE: C-198-2013, Surface Basic Calibration Technician Pipeline

COURSE LENGTH: 17.8 Weeks

ATTRITION FACTOR: Navy: 10% USMC: 0%

TOUR LENGTH: Navy: 36 Months

BACKOUT FACTOR: 0.36

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY00		FY01		FY02		FY03		FY04	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NTTU Keesler, AFB, Biloxi, Mississippi												
NAVY	ACDU		22		23		22		22		22	
	TAR		1		1		1		1		1	
	TOTAL:		23		24		23		23		23	

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the Navy Metrology and Calibration (METCAL) Program and, therefore, are not included in Part III of this NTSP:

III.A.1 Initial Training Requirements

III.A.2 Follow-on Training

 III.A.2.b Planned Courses

 III.A.2.c Unique Courses

PART III - TRAINING REQUIREMENTS

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-198-2011, Advanced Calibration Technician

TRAINING ACTIVITY: NTTU Keesler, AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	24		24		24		24		24	ATIR
	24		24		24		24		24	Output
	5.3		5.3		5.3		5.3		5.3	AOB
	5.3		5.3		5.3		5.3		5.3	Chargeable

SOURCE: USMC STUDENT CATEGORY: SMCR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	21		21		23		22		22	ATIR
	19		19		21		20		20	Output
	4.4		4.4		4.8		4.6		4.6	AOB
	4.4		4.4		4.8		4.6		4.6	Chargeable

SOURCE: NAVY STUDENT CATEGORY: SELRES

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		0		1		0		1	ATIR
	1		0		1		0		1	Output
	0.2		0.0		0.2		0.0		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-198-2012, Aviation Basic Calibration Technician Pipeline

TRAINING ACTIVITY: NTTU Keesler, AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
84		84		84		84		83		ATIR
84		84		84		84		83		Output
30.1		30.1		30.1		30.1		29.8		AOB
30.1		30.1		30.1		30.1		29.8		Chargeable

SOURCE: USMC STUDENT CATEGORY: SMCR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
8		7		7		7		7		ATIR
8		7		7		7		7		Output
2.9		2.5		2.5		2.5		2.5		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
117		124		127		120		117		ATIR
105		112		114		108		105		Output
39.9		42.3		43.4		41.0		39.9		AOB
39.9		42.3		43.4		41.0		39.9		Chargeable

SOURCE: NAVY STUDENT CATEGORY: SELRES

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
2		2		2		2		2		ATIR
2		2		2		2		2		Output
0.7		0.7		0.7		0.7		0.7		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-198-2013, Surface Basic Calibration Technician Pipeline

TRAINING ACTIVITY: NTTU Keesler, AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04	
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
23		24		23		23		23	
21		22		21		21		21	
7.3		7.7		7.3		7.3		7.3	
7.3		7.7		7.3		7.3		7.3	

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Navy Metrology and Calibration (METCAL) Program and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

 IV.A.2. Training Devices

IV.B. Courseware Requirements

 IV.B.1. Training Services

IV.C. Facility Requirements

 IV.C.1. Facility Requirements Summary (Space/Support) by Activity

 IV.C.2. Facility Requirements Detailed by Activity and Course

 IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-198-6671, General Purpose Electronic Test Equipment Calibration and Maintenance (GCAMS)
 (Track C-198-2012)

TRAINING ACTIVITY: NTTU Keesler AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
GPTE					
0001	AC Standard	1	Oct 90	GFE	Onboard
0002	Amplifier	1	Oct 90	GFE	Onboard
0003	Attenuator	1	Oct 90	GFE	Onboard
0004	Calibration Generator	1	Oct 90	GFE	Onboard
0005	Constant Amplitude Generator	1	Oct 90	GFE	Onboard
0006	DC Standard	1	Oct 90	GFE	Onboard
0007	Digital Multimeter	1	Oct 90	GFE	Onboard
0008	Distortion Analyzer	1	Oct 90	GFE	Onboard
0009	Frequency Meter	1	Oct 90	GFE	Onboard
0010	Frequency Counter	1	Oct 90	GFE	Onboard
0011	Frequency Comb Generator	1	Oct 90	GFE	Onboard
0012	Frequency Standard	1	Oct 90	GFE	Onboard
0013	Instrument Controller	1	Oct 90	GFE	Onboard
0014	Measuring Receiver	1	Oct 90	GFE	Onboard
0015	Meter Calibrator	1	Oct 90	GFE	Onboard
0016	Multimeter	1	Oct 90	GFE	Onboard
0017	Oscilloscope	1	Oct 90	GFE	Onboard
0018	Power Meter	1	Oct 90	GFE	Onboard
0019	Power Divider	1	Oct 90	GFE	Onboard
0020	Power Amplifier	1	Oct 90	GFE	Onboard
0021	Power Supply	1	Oct 90	GFE	Onboard
0022	Range Calibrator	1	Oct 90	GFE	Onboard
0023	Ratio Transfer Standard	1	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0024	RF Milliwattmeter	1	Oct 90	GFE	Onboard
0025	Signal Generator	1	Oct 90	GFE	Onboard
0026	Spectrum Analyzer	1	Oct 90	GFE	Onboard
0027	Sweep Generator	1	Oct 90	GFE	Onboard
0028	Thermal Transfer Standard	1	Oct 90	GFE	Onboard
0029	Time Mark Generator	1	Oct 90	GFE	Onboard
0030	Resistance Measuring System	1	Oct 90	GFE	Onboard
0031	VSWR Bridge	1	Oct 90	GFE	Onboard
0032	Universal Counter	1	Oct 90	GFE	Onboard

CIN, COURSE TITLE: C-198-2011, Advanced Calibration Technician

TRAINING ACTIVITY: NTTU Keesler, AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
GPETE					
0001	7105A Voltage Calibrator System	1	Oct 90	CFE	Onboard
0002	332B DC Standard	2	Oct 90	GFE	Onboard
0003	720A Voltage Divider	2	Oct 90	GFE	Onboard
0004	721A Lead Compensator	2	Oct 90	GFE	Onboard
0005	845AR Null Detector	2	Oct 90	GFE	Onboard
0006	1433B Decade Resistor	2	Oct 90	GFE	Onboard
0007	1433W Decade Resistor	2	Oct 90	GFE	Onboard
0008	SR1010/1K Decade Resistor	2	Oct 90	GFE	Onboard
0009	SR104 Fixed Resistor	2	Oct 90	GFE	Onboard
0010	4035BFixed Resistor	2	Oct 90	GFE	Onboard
0011	4040B Fixed Resistor	2	Oct 90	GFE	Onboard
0012	845AB Null Detector	2	Oct 90	GFE	Onboard
0013	4363 Shunt Detector	2	Oct 90	GFE	Onboard
0014	742A-1 Standard Resistance	2	Oct 90	GFE	Onboard
0015	742A-10 Standard Resistance	2	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0016	741A-100 Standard Resistance	2	Oct 90	GFE	Onboard
0017	742A-1K Standard Resistance	2	Oct 90	GFE	Onboard
0018	742A-10K Standard Resistance	2	Oct 90	GFE	Onboard
0019	742A-100K Standard resistance	2	Oct 90	GFE	Onboard
0020	742A-1M Standard Resistance	2	Oct 90	GFE	Onboard
0021	SB 103 Shorting Bars	6	Oct 90	GFE	Onboard
0022	PC 101 Compensation Network	6	Oct 90	GFE	Onboard
0023	242D Precision Resistance Measuring System	1	Oct 90	GFE	Onboard
0024	801B DC Generator Detector	2	Oct 90	GFE	Onboard
0025	RS925D Decade Resistor	2	Oct 90	GFE	Onboard
0026	240C Kelvin Bridge	2	Oct 90	GFE	Onboard
0027	RV 722 Voltage Divider	2	Oct 90	GFE	Onboard
0028	5200A AC Calibrator	2	Oct 90	GFE	Onboard
0029	8445AB Null Detector	2	Oct 90	GFE	Onboard
0030	4920M AC Measurement System	2	Oct 90	GFE	Onboard
0031	5440B DC Voltage Standard	2	Oct 90	GFE	Onboard
0032	752A Reference Divider	2	Oct 90	GFE	Onboard
0033	732A Reference Standard	2	Oct 90	GFE	Onboard
0034	34401AOPT02	1	Oct 90	GFE	Onboard
0035	5334A Counter	2	Oct 90	GFE	Onboard
0036	5700A/5725A Meter Calibrator	2	Oct 90	GFE	Onboard
0037	1395A Thermal Voltmeter	2	Oct 90	GFE	Onboard
0038	931B RMS Differential Voltmeter	2	Oct 90	GFE	Onboard
0039	732 Series Direct Voltage Standard	2	Oct 90	GFE	Onboard
0040	4920M Alternating Voltage Measuring System	2	Oct 90	GFE	Onboard
0041	5440A-7002 Test Lead Kit	2	Oct 90	GFE	Onboard
0042	HP2225D Printer	2	Oct 90	GFE	Onboard
0043	HP8903B Audio analyzer	2	Oct 90	GFE	Onboard
0044	332A Distortion analyzer	2	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0045	8903BOPT907 Distortion Analyzer	2	Oct 90	GFE	Onboard
0046	7704AMOD129G Oscilloscope Mainframe	2	Oct 90	GFE	Onboard
0047	7S14 Sampling Plug-In	2	Oct 90	GFE	Onboard
0048	CG5011AP Programmable Calibration Generator	2	Oct 90	GFE	Onboard
0049	SG5030 Programmable Leveled Sine Wave Generator	2	Oct 90	GFE	Onboard
0050	2465 Oscilloscope	2	Oct 90	GFE	Onboard
0051	HP5404A Digital Oscilloscope	2	Oct 90	GFE	Onboard
0052	TDS620A digitizing Oscilloscope	2	Oct 90	GFE	Onboard
0053	HP33120A Audio Synthesizer	2	Oct 90	GFE	Onboard
0054	8840 Fluke Digital Multimeter	2	Oct 90	GFE	Onboard
0055	5345A Counter	2	Oct 90	GFE	Onboard
0056	652A Test Oscillator	2	Oct 90	GFE	Onboard
0057	2345 Oscilloscope	2	Oct 90	GFE	Onboard
0058	214B Pulse Generator	2	Oct 90	GFE	Onboard
0059	5061B Cesium Beam	2	Oct 90	GFE	Onboard
0060	AS210 Counter Calibrator	2	Oct 90	GFE	Onboard
0061	527A Frequency Difference Meter	2	Oct 90	GFE	Onboard
0062	1210D Frequency Standard	2	Oct 90	GFE	Onboard
0063	AN/URQ23 Frequency Standard	2	Oct 90	GFE	Onboard
0064	888A Phase Comparator	2	Oct 90	GFE	Onboard
0065	3310A Function Generator	2	Oct 90	GFE	Onboard
0066	8902 Measurement Receiver	2	Oct 90	GFE	Onboard
0067	8644 Signal Generator	2	Oct 90	GFE	Onboard
0068	Adapter W/G to Coax	2	Oct 90	GFE	Onboard
0069	Attenuator Set 3,6,10,20dB	2	Oct 90	GFE	Onboard
0070	RVA, X-Band	2	Oct 90	GFE	Onboard
0071	Directional Coupler, X-Band	2	Oct 90	GFE	Onboard
0072	Isolator, Waveguide, X-band	2	Oct 90	GFE	Onboard
0073	Slotted Line, X-Band	2	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0074	8673 Series signal Generator	2	Oct 90	GFE	Onboard
0075	8644A Signal Generator	2	Oct 90	GFE	Onboard
0076	DS109 Tuner	2	Oct 90	GFE	Onboard
0077	SC33112A VSWR Bridge	2	Oct 90	GFE	Onboard
0078	415E/PRD 277D VSWR Meter	2	Oct 90	GFE	Onboard
0079	Adjustable Short, X-Band	2	Oct 90	GFE	Onboard
0080	75N50B Crystal Detector	2	Oct 90	GFE	Onboard
0081	432A Power Meter	2	Oct 90	GFE	Onboard
0082	3310A/B audio Oscillator	2	Oct 90	GFE	Onboard
0083	Tunable Detector	2	Oct 90	GFE	Onboard
0084	Standard Mismatch	2	Oct 90	GFE	Onboard
0085	Sliding Short	2	Oct 90	GFE	Onboard
0086	Moving Short	2	Oct 90	GFE	Onboard
0087	535FN Termination Coaxial	2	Oct 90	GFE	Onboard
0088	Thermistor Mount	2	Oct 90	GFE	Onboard
0089	414E VSWR Meter	2	Oct 90	GFE	Onboard
0090	Attenuator, 3dB, 1B3	2	Oct 90	GFE	Onboard
0091	Attenuator, 6 dB, 1B6	2	Oct 90	GFE	Onboard
0092	3000-40 Directional Coupler	2	Oct 90	GFE	Onboard
0093	5351B Frequency Counter	2	Oct 90	GFE	Onboard
0094	360A Low Pass Filter	2	Oct 90	GFE	Onboard
0095	8840A Digital Multimeter	2	Oct 90	GFE	Onboard
0096	2252 Oscilloscope	2	Oct 90	GFE	Onboard
0097	437B Power Meter	2	Oct 90	GFE	Onboard
0098	8501 Power Meter	2	Oct 90	GFE	Onboard
0099	8477A Power Meter Calibrator	2	Oct 90	GFE	Onboard
0100	8478B Power Sensor	2	Oct 90	GFE	Onboard
0101	895A Ratiometer	2	Oct 90	GFE	Onboard
0102	AN/URM120 RF Wattmeter	2	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0103	M445-2 Power Oscillator	2	Oct 90	GFE	Onboard
0104	8642 Signal Generator	2	Oct 90	GFE	Onboard
0105	10MHz-10GHz Thermistor Mount	2	Oct 90	GFE	Onboard
0106	Attenuator Set, AS-5	2	Oct 90	GFE	Onboard
0107	Measurement Bench, MB1	2	Oct 90	GFE	Onboard
0108	3310B Function Generator	2	Oct 90	GFE	Onboard
0109	8902A High Frequency Option, Signal Generator Calibrator	2	Oct 90	GFE	Onboard
0110	8340A Synthesized Signal Generator	2	Oct 90	GFE	Onboard
0111	8562A Spectrum analyzer	2	Oct 90	GFE	Onboard
0112	360A Thermistor Mount	2	Oct 90	GFE	Onboard
0113	401L DS Tuner	2	Oct 90	GFE	Onboard
0114	Wilton RF Test Kit	2	Oct 90	GFE	Onboard
0115	5334B/535x Counter	2	Oct 90	GFE	Onboard
0116	110D/8116A Pulse Generator	2	Oct 90	GFE	Onboard
0117	8642B Signal Generator	2	Oct 90	GFE	Onboard
0118	8562AOPTE50 Spectrum Analyzer	2	Oct 90	GFE	Onboard
0119	8340B Sweep Generator	2	Oct 90	GFE	Onboard
0120	3335A Frequency Synthesizer	2	Oct 90	GFE	Onboard
0121	436A Power Meter	2	Oct 90	GFE	Onboard
0122	8482A Power Sensor	2	Oct 90	GFE	Onboard
0123	8485A Power Sensor	2	Oct 90	GFE	Onboard
0124	355C Step Attenuator	2	Oct 90	GFE	Onboard
0125	355D Step Attenuator	2	Oct 90	GFE	Onboard
0126	2-10 Attenuator	2	Oct 90	GFE	Onboard
0127	2-20 Attenuator	2	Oct 90	GFE	Onboard
0128	TLC44-7EE2 Low Pass Filter	2	Oct 90	GFE	Onboard
0129	360D Low Pass Filter	2	Oct 90	GFE	Onboard
0130	11667B Power Splitter	2	Oct 90	GFE	Onboard
0131	8116A Function Generator	2	Oct 90	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
0132	8902AOPTE04 Signal Generator Calibrator	2	Oct 90	GFE	Onboard
0133	SC3470A VSWR Bridge Set	2	Oct 90	GFE	Onboard
0134	11715A AM/FM Test Source	2	Oct 90	GFE	Onboard
0135	8903B Audio analyzer	2	Oct 90	GFE	Onboard
0136	116893A Range Calibrator	2	Oct 90	GFE	Onboard
0137	X388S Waveguide Standard Attenuator	2	Oct 90	GFE	Onboard
0138	AS1210 RF Power Standard	2	Oct 90	GFE	Onboard
0139	Variable Attenuator	2	Oct 90	GFE	Onboard
0140	7090A Plotter	2	Oct 90	GFE	Onboard
0141	Signal Separation Devices	2	Oct 90	GFE	Onboard
0142	85054B Calibration Kit	2	Oct 90	GFE	Onboard
0143	Model A007A Connector Gage Kit	2	Oct 90	GFE	Onboard
0144	Model A020D Connector Gage Kit	2	Oct 90	GFE	Onboard
0145	85055A Verification Kit	2	Oct 90	GFE	Onboard
0146	8510B Network Analyzer	2	Oct 90	GFE	Onboard
0147	11582A Attenuator Set	2	Oct 90	GFE	Onboard
0148	360C/D Low Pass Filter	2	Oct 90	GFE	Onboard
0149	L20PS Coaxial Isolator	2	Oct 90	GFE	Onboard
0150	Male to Male N-Type Adapter	2	Oct 90	GFE	Onboard
0151	478A Thermistor Mount	2	Oct 90	GFE	Onboard
0152	3000-40 Coaxial directional Coupler	2	Oct 90	GFE	Onboard
0153	26N50 Termination (Male)	2	Oct 90	GFE	Onboard
0154	26NF50 Termination (Male)	2	Oct 90	GFE	Onboard
0155	652A Test Oscillator	2	Oct 90	GFE	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-198-6671, General Purpose Electronic Test Equipment Calibration and Maintenance (GCAMS)
 (Track C-198-2012)

TRAINING ACTIVITY: NTTU Keesler AFB
LOCATION, UIC: Biloxi, Mississippi, 35970

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Wall Chart				
C-198-6671 4101	893A Block Diagram	1	Oct 91	Onboard
C-198-6671 4102	893A Power Supply/Reference Amplifier Schematic	1	Oct 91	Onboard
C-198-6671 4103	893A Reference Inverter/Kelvin-Varley Divider Schematic	1	Oct 91	Onboard
C-198-6671 4104	893A Null Detector Schematic	1	Oct 91	Onboard
C-198-6671 4105	893A AC Converter Schematic	1	Oct 91	Onboard
C-198-6671 4201	2336YA Block Diagram	1	Oct 91	Onboard
C-198-6671 4202	2336YA CH 1/CH 2 Attenuators Schematic	1	Oct 91	Onboard
C-198-6671 4203	2336YA CH 1/CH 2 Vertical Pre-Amplifiers Schematic	1	Oct 91	Onboard
C-198-6671 4204	2336YA Vertical Output Amplifier Schematic	1	Oct 91	Onboard
C-198-6671 4205	2336YA Vertical Switching Logic/Chop Blanking Schematic	1	Oct 91	Onboard
C-198-6671 4206	2336YA Trigger Schematic	1	Oct 91	Onboard
C-198-6671 4207	2336YA Sweep Schematic	1	Oct 91	Onboard
C-198-6671 4208	2336YA Horizontal Amplifier Schematic	1	Oct 91	Onboard
C-198-6671 4209	2336YA High Voltage/CRT Schematic	1	Oct 91	Onboard
C-198-6671 4210	2336YA Delta Time Logic Schematic	1	Oct 91	Onboard
C-198-6671 4301	5328A-H99 Motherboard Schematic	1	Oct 91	Onboard
C-198-6671 4302	5328A-H99 Power Supply Schematic	1	Oct 91	Onboard
C-198-6671 4303	5328A-H99 Oscillator Support Schematic	1	Oct 91	Onboard
C-198-6671 4304	5328A-H99 Function Selector Schematic	1	Oct 91	Onboard
C-198-6671 4305	5328A-H99 Channel "C" Schematic	1	Oct 91	Onboard
C-198-6671 4306	5328A-H99 Synchronizer Schematic	1	Oct 91	Onboard
C-198-6671 4307	5328A-H99 "A-B" Channel Schematic	1	Oct 91	Onboard
C-198-6671 4308	5328A-H99 Display Schematic	1	Oct 91	Onboard
C-198-6671 4309	5328A-H99 Switch/Attenuator Schematic	1	Oct 91	Onboard
C-198-6671 5101	8640B Functional Block Diagram, BD1, Sheet 2 of 2	1	Oct 91	Onboard
C-198-6671 5102	FM CKTS and RF Oscillator, BD2	1	Oct 91	Onboard
C-198-6671 5103	AM/AGC Circuits and Output Amplifier, BD3A	1	Oct 91	Onboard
C-198-6671 5104	Internal Doubler and Reverse Power Protection, BD3B	1	Oct 91	Onboard
C-198-6671 5105	Counter/Lock Circuits, BD4	1	Oct 91	Onboard
C-198-6671 5106	RF Oscillator, SS1	1	Oct 91	Onboard
C-198-6671 5107	FM Amplifier, SS2	1	Oct 91	Onboard
C-198-6671 5108	FM Shaping, Phase Lock Loop Filter, SS3	1	Oct 91	Onboard
C-198-6671 5109	Over-Deviation Detector, Meter Control, SS4	1	Oct 91	Onboard
C-198-6671 5110	Variable-Frequency Modulation Oscillator, SS5B	1	Oct 91	Onboard
C-198-6671 5111	RF Filters, SS6	1	Oct 91	Onboard
C-198-6671 5112	RF Dividers, SS7	1	Oct 91	Onboard
C-198-6671 5113	AGC, Amplifiers, Amplitude Modulators, SS8B	1	Oct 91	Onboard
C-198-6671 5114	Output Amplifier, AGC Detector, Doubler, SS9B	1	Oct 91	Onboard
C-198-6671 5115	Reverse Power, SS9C	1	Oct 91	Onboard
C-198-6671 5116	AM Preamplifiers, SS10	1	Oct 91	Onboard
C-198-6671 5117	Meter Switch and Drive, SS13	1	Oct 91	Onboard
C-198-6671 5118	Counter RF Scaler, SS14	1	Oct 91	Onboard
C-198-6671 5119	Counter Time Base, SS15	1	Oct 91	Onboard
C-198-6671 5120	Up./Down Counter and Display, SS16 SHT 1 of 2	1	Oct 91	Onboard
C-198-6671 5121	Up/Down Counter and Display, SS16 SHT 2 of 2	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Wall Chart (cont.)				
C-198-6671 5122	Counter Phase Lock Circuits, SS17	1	Oct 91	Onboard
C-198-6671 5123	Power Supply Circuits, SS18	1	Oct 91	Onboard
C-198-6671 5124	-5.2V Supply and Fan Driver Assy, SS19	1	Oct 91	Onboard
C-198-6671 5201	8350B Overall Block Diagram	1	Oct 91	Onboard
C-198-6671 5202	A1 Front Panel, Schematic Diagram	1	Oct 91	Onboard
C-198-6671 5203	A2 Front Panel Interface, Schematic Diagram	1	Oct 91	Onboard
C-198-6671 5204	A3 Microprocessor, Schematic Diagram	1	Oct 91	Onboard
C-198-6671 5205	A4 Scaling and Marker Assembly, Schematic Diagram	1	Oct 91	Onboard
C-198-6671 5206	A5 Sweep Generator, Schematic Diagram (1 of 2)	1	Oct 91	Onboard
C-198-6671 5207	A5 Sweep Generator, Schematic Diagram (2 of 2)	1	Oct 91	Onboard
C-198-6671 5208	A7 Regulator, Schematic Diagram	1	Oct 91	Onboard
C-198-6671 5301	1st Converter Schematic, Diamond 11	1	Oct 91	Onboard
C-198-6671 5302	Phaselock Control, Diamond 12	1	Oct 91	Onboard
C-198-6671 5303	Error Amplifier and Synthesizer, Diamond 13	1	Oct 91	Onboard
C-198-6671 5304	Controlled Oscillator, Offset Mixer, and Strobe Driver, Diamond 14	1	Oct 91	Onboard
C-198-6671 5305	2nd Converter, Diamond 15	1	Oct 91	Onboard
C-198-6671 5306	Phaselocked 2nd LO, Diamond 16	1	Oct 91	Onboard
C-198-6671 5307	Phaselocked 2nd LO, Diamond 17	1	Oct 91	Onboard
C-198-6671 5308	110 MHz IF Amplifier, Diamond 18	1	Oct 91	Onboard
C-198-6671 5309	3rd Converter, Diamond 19	1	Oct 91	Onboard
C-198-6671 5310	#1 Variable Resolution, Diamond 20	1	Oct 91	Onboard
C-198-6671 5311	#2 Variable Resolution, Diamond 21	1	Oct 91	Onboard
C-198-6671 5312	#2 Variable Resolution, Diamond 22	1	Oct 91	Onboard
C-198-6671 5313	Log Amplifier and Detector, Diamond 23	1	Oct 91	Onboard
C-198-6671 5314	Video Amplifier, Diamond 24	1	Oct 91	Onboard
C-198-6671 5315	Video Processor, Diamond 25	1	Oct 91	Onboard
C-198-6671 5316	Vertical Digital Storage, Diamond 26	1	Oct 91	Onboard
C-198-6671 5317	Horizontal Digital Storage, Diamond 27	1	Oct 91	Onboard
C-198-6671 5318	Deflection Amplifiers, Diamond 28	1	Oct 91	Onboard
C-198-6671 5319	CRT Readout, Diamond 29	1	Oct 91	Onboard
C-198-6671 5320	Z-Axis RF Interface, Diamond 30	1	Oct 91	Onboard
C-198-6671 5321	High Voltage Supply, Diamond 31	1	Oct 91	Onboard
C-198-6671 5322	Sweep, Diamond 32	1	Oct 91	Onboard
C-198-6671 5323	Span Attenuator, Diamond 33	1	Oct 91	Onboard
C-198-6671 5324	Center Frequency Control, Diamond 34	1	Oct 91	Onboard
C-198-6671 5325	1st LO Driver, Diamond 35	1	Oct 91	Onboard
C-198-6671 5326	Processor, Diamond 36	1	Oct 91	Onboard
Transparencies				
C-198-6671 1201	Objective 2a	1	Oct 91	Onboard
C-198-6671 1202	Objective 2b	1	Oct 91	Onboard
C-198-6671 1203	Objective 2c	1	Oct 91	Onboard
C-198-6671 1204	Objective 2d	1	Oct 91	Onboard
C-198-6671 1205	Typical Work Package Manual Arrangement	1	Oct 91	Onboard
C-198-6671 1206	Objective 2e	1	Oct 91	Onboard
C-198-6671 1207	Blank Meter Card	1	Oct 91	Onboard
C-198-6671 1208	MEASURE Format 310	1	Oct 91	Onboard
C-198-6671 1209	MEASURE Format 311	1	Oct 91	Onboard
C-198-6671 1210	MEASURE Format 350	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 1211	Objective 2f	1	Oct 91	Onboard
C-198-6671 1212	Navy Calibration/Standards Facilities	1	Oct 91	Onboard
C-198-6671 1213	Objective 2g	1	Oct 91	Onboard
C-198-6671 1214	Classifications of Errors	1	Oct 91	Onboard
C-198-6671 1215	Objective 2h	1	Oct 91	Onboard
C-198-6671 1301	Objective 3a	1	Oct 91	Onboard
C-198-6671 1302	Linear Scale	1	Oct 91	Onboard
C-198-6671 1303	Non-linear Scale	1	Oct 91	Onboard
C-198-6671 1304	Front panel 3400A	1	Oct 91	Onboard
C-198-6671 1305	Meter Classification - Electrical	1	Oct 91	Onboard
C-198-6671 1306	Meter Classification - Electronic	1	Oct 91	Onboard
C-198-6671 1307	Analog Meter Movement	1	Oct 91	Onboard
C-198-6671 1308	Current Meter Configuration	1	Oct 91	Onboard
C-198-6671 1309	Current Meter - Blank	1	Oct 91	Onboard
C-198-6671 1310	Current Meter - Problem	1	Oct 91	Onboard
C-198-6671 1311	Current Meter - Loading Effect	1	Oct 91	Onboard
C-198-6671 1312	Volt Meter Configuration	1	Oct 91	Onboard
C-198-6671 1313	Volt Meter - Blank	1	Oct 91	Onboard
C-198-6671 1314	Volt Meter - Loading Effect	1	Oct 91	Onboard
C-198-6671 1315	Ohm Meter Configuration	1	Oct 91	Onboard
C-198-6671 1316	Objective 3b	1	Oct 91	Onboard
C-198-6671 1317	Front panel 5700AAN	1	Oct 91	Onboard
C-198-6671 1318	Front/Rear panel 5725A	1	Oct 91	Onboard
C-198-6671 1319	Objective 3c	1	Oct 91	Onboard
C-198-6671 1320	Objective 3d	1	Oct 91	Onboard
C-198-6671 1401	Objective 4a	1	Oct 91	Onboard
C-198-6671 1402	Harmonic waveforms	1	Oct 91	Onboard
C-198-6671 1403	Frequency Distortion	1	Oct 91	Onboard
C-198-6671 1404	O'scope Block - CRT, Z-axis Section	1	Oct 91	Onboard
C-198-6671 1405	O'scope Block - Vertical, CRT, Z-axis Section	1	Oct 91	Onboard
C-198-6671 1406	O'scope Block - Basic Block Diagram	1	Oct 91	Onboard
C-198-6671 1407	Basic O'scope and Counter Internal Triggering	1	Oct 91	Onboard
C-198-6671 1408	Blank O'scope CRT	1	Oct 91	Onboard
C-198-6671 1409	Calibration Parameters - DC Balance	1	Oct 91	Onboard
C-198-6671 1410	Calibration Parameters - Vert Amp Acc (gain)	1	Oct 91	Onboard
C-198-6671 1411	Calibration Parameters - Att Acc	1	Oct 91	Onboard
C-198-6671 1412	Calibration Parameters - Times 10 Gain (x10)	1	Oct 91	Onboard
C-198-6671 1413	Calibration Parameters - Freq/Att Comp	1	Oct 91	Onboard
C-198-6671 1414	Calibration Parameters - Probe Input Capacitance	1	Oct 91	Onboard
C-198-6671 1415	Calibration Parameters - Low Freq Linearity	1	Oct 91	Onboard
C-198-6671 1416	Calibration Parameters - Rise Time	1	Oct 91	Onboard
C-198-6671 1417	Blank O'scope CRT	1	Oct 91	Onboard
C-198-6671 1418	Objective 4b	1	Oct 91	Onboard
C-198-6671 1419	Objective 4c	1	Oct 91	Onboard
C-198-6671 1420	Objective 4d	1	Oct 91	Onboard
C-198-6671 2101	Objectives	1	Oct 91	Onboard
C-198-6671 2102	Input Conditioning Controls/AC Coupling	1	Oct 91	Onboard
C-198-6671 2103	DC Coupling/Level Control/Attenuator Control	1	Oct 91	Onboard
C-198-6671 2104	Slope Control/Impedance Control	1	Oct 91	Onboard
C-198-6671 2105	Input Conditioning Block Diagram	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 2106	Frequency	1	Oct 91	Onboard
C-198-6671 2107	Frequency Block Diagram	1	Oct 91	Onboard
C-198-6671 2108	Period	1	Oct 91	Onboard
C-198-6671 2109	Period Block Diagram	1	Oct 91	Onboard
C-198-6671 2110	Time Interval	1	Oct 91	Onboard
C-198-6671 2111	Time Interval Block Diagram	1	Oct 91	Onboard
C-198-6671 2112	Time Interval Sub-functions	1	Oct 91	Onboard
C-198-6671 2113	Averaging	1	Oct 91	Onboard
C-198-6671 2114	Counter Count Ambiguity	1	Oct 91	Onboard
C-198-6671 2115	Totalize	1	Oct 91	Onboard
C-198-6671 2116	Ratio	1	Oct 91	Onboard
C-198-6671 2117	Check	1	Oct 91	Onboard
C-198-6671 2118	Gate Time Control	1	Oct 91	Onboard
C-198-6671 2119	Trigger Indicator	1	Oct 91	Onboard
C-198-6671 2120	Gate Indicator	1	Oct 91	Onboard
C-198-6671 2121	Arm/Overflow/Underflow/Unit Multipliers	1	Oct 91	Onboard
C-198-6671 2122	9390-6000-34 Front Panel	1	Oct 91	Onboard
C-198-6671 2201	Objectives	1	Oct 91	Onboard
C-198-6671 2202	Signal Generators/Sinusoidal/Non-sinusoidal	1	Oct 91	Onboard
C-198-6671 2203	Basic Generator	1	Oct 91	Onboard
C-198-6671 2204	Monostable Multivibrator	1	Oct 91	Onboard
C-198-6671 2205	Bistable Multivibrator	1	Oct 91	Onboard
C-198-6671 2206	Astable Multivibrator	1	Oct 91	Onboard
C-198-6671 2207	Dual Diode Limiter	1	Oct 91	Onboard
C-198-6671 2208	RC Network	1	Oct 91	Onboard
C-198-6671 2209	Transistor Sawtooth Generator	1	Oct 91	Onboard
C-198-6671 2210	Line Voltage Reg/Freq Acc/Distortion, Hum & Noise	1	Oct 91	Onboard
C-198-6671 2211	Atten Accuracy/Percent of Modulation/Freq Response	1	Oct 91	Onboard
C-198-6671 2212	Spectral Purity/Output Amplitude/Jitter/DC Level	1	Oct 91	Onboard
C-198-6671 2213	dB/dBm/Laws of Power	1	Oct 91	Onboard
C-198-6671 2214	Laws of Voltage	1	Oct 91	Onboard
C-198-6671 2215	Power Conversion Chart	1	Oct 91	Onboard
C-198-6671 2216	400F Controls	1	Oct 91	Onboard
C-198-6671 2217	Impedance Correction Graph	1	Oct 91	Onboard
C-198-6671 2218	436A Power Meter	1	Oct 91	Onboard
C-198-6671 2219	436A Front and Rear Panels	1	Oct 91	Onboard
C-198-6671 2220	Power Sensor Internal View	1	Oct 91	Onboard
C-198-6671 2221	Harmonic Distortion/THD/Hum/Noise/Formula	1	Oct 91	Onboard
C-198-6671 2222	Hum and Noise Example	1	Oct 91	Onboard
C-198-6671 2223	Signal Analysis	1	Oct 91	Onboard
C-198-6671 2224	8562A Front Panel	1	Oct 91	Onboard
C-198-6671 2225	8562A Frequency, Span and Amplitude Keys	1	Oct 91	Onboard
C-198-6671 2226	8562A Marker Keys	1	Oct 91	Onboard
C-198-6671 2227	8562A Instrument State Keys	1	Oct 91	Onboard
C-198-6671 2228	8562A Display Annotation	1	Oct 91	Onboard
C-198-6671 2229	8562A Rear Panel	1	Oct 91	Onboard
C-198-6671 2230	Spectrum Test Specifications	1	Oct 91	Onboard
C-198-6671 2231	8902A Front Panel	1	Oct 91	Onboard
C-198-6671 2232	11792A Sensor Module	1	Oct 91	Onboard
C-198-6671 2233	Sensor Module Block	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 2301	Diagram Objectives	1	Oct 91	Onboard
C-198-6671 2302	Parallel Lines/Twisted Pair/Shielded Pair	1	Oct 91	Onboard
C-198-6671 2303	Rigid Coax	1	Oct 91	Onboard
C-198-6671 2304	Flexible Coax	1	Oct 91	Onboard
C-198-6671 2305	Waveguide	1	Oct 91	Onboard
C-198-6671 2306	Two Wire Equivalent Circuit	1	Oct 91	Onboard
C-198-6671 2307	Resonant Line	1	Oct 91	Onboard
C-198-6671 2308	Nonresonant Line	1	Oct 91	Onboard
C-198-6671 2309	Power Loss	1	Oct 91	Onboard
C-198-6671 2310	Skin Effect	1	Oct 91	Onboard
C-198-6671 2311	Dielectric Loss	1	Oct 91	Onboard
C-198-6671 2312	Radiation/Induction Loss	1	Oct 91	Onboard
C-198-6671 2313	Short Circuit	1	Oct 91	Onboard
C-198-6671 2314	Open Circuit	1	Oct 91	Onboard
C-198-6671 2315	Attenuators	1	Oct 91	Onboard
C-198-6671 2316	VSWR Bridge	1	Oct 91	Onboard
C-198-6671 2317	Bridge Schematic	1	Oct 91	Onboard
C-198-6671 31001	Four Requirements for Troubleshooting #1	1	Oct 91	Onboard
C-198-6671 31002	Four Requirements for Troubleshooting #2	1	Oct 91	Onboard
C-198-6671 31003	Four Requirements for Troubleshooting #3	1	Oct 91	Onboard
C-198-6671 31004	Tech Manual Layout	1	Oct 91	Onboard
C-198-6671 31005	Four Requirements for Troubleshooting #4	1	Oct 91	Onboard
C-198-6671 31006	Sample Discrepancies	1	Oct 91	Onboard
C-198-6671 31007	Signal Generator Block Diagram	1	Oct 91	Onboard
C-198-6671 31008	893 Simplified Circuit Diagram	1	Oct 91	Onboard
C-198-6671 31009	Oscillator Basic Block Diagram	1	Oct 91	Onboard
C-198-6671 31010	Mod Oscillator Sub-block Diagram	1	Oct 91	Onboard
C-198-6671 31011	O'scope Basic Block Diagram	1	Oct 91	Onboard
C-198-6671 31012	CRT Sub-block Diagram	1	Oct 91	Onboard
C-198-6671 31013	323 Basic Block Diagram	1	Oct 91	Onboard
C-198-6671 31014	Oscilloscope	1	Oct 91	Onboard
C-198-6671 31015	Spectrum Analyzer	1	Oct 91	Onboard
C-198-6671 31016	Frequency Counter	1	Oct 91	Onboard
C-198-6671 31017	Digital Multimeter	1	Oct 91	Onboard
C-198-6671 31018	Power Meter	1	Oct 91	Onboard
C-198-6671 31019	Signature Analyzer	1	Oct 91	Onboard
C-198-6671 31020	Sequence of Checks	1	Oct 91	Onboard
C-198-6671 31021	Objective b	1	Oct 91	Onboard
C-198-6671 31022	Voltage Dividers	1	Oct 91	Onboard
C-198-6671 31023	Amplifier Circuit	1	Oct 91	Onboard
C-198-6671 31024	Transformer Circuit	1	Oct 91	Onboard
C-198-6671 31025	Power Supply Circuit	1	Oct 91	Onboard
C-198-6671 31026	Objective c	1	Oct 91	Onboard
C-198-6671 31027	Diode Characteristic Curve	1	Oct 91	Onboard
C-198-6671 31028	Silicon/germanium comparison	1	Oct 91	Onboard
C-198-6671 31029	Diode Parameters	1	Oct 91	Onboard
C-198-6671 31030	Zener Diode	1	Oct 91	Onboard
C-198-6671 31031	Tunnel Diode	1	Oct 91	Onboard
C-198-6671 31032	Varactor	1	Oct 91	Onboard
C-198-6671 31033	Varactor Circuit	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 31034	SCR/Triac	1	Oct 91	Onboard
C-198-6671 31035	SCR Circuit	1	Oct 91	Onboard
C-198-6671 31036	Triac Circuit	1	Oct 91	Onboard
C-198-6671 31037	Power Supply	1	Oct 91	Onboard
C-198-6671 31038	Objective d	1	Oct 91	Onboard
C-198-6671 31039	NPN Transistor	1	Oct 91	Onboard
C-198-6671 31040	Class "A" Amplifier	1	Oct 91	Onboard
C-198-6671 31041	Class "B" Amplifier	1	Oct 91	Onboard
C-198-6671 31042	Class "AB" Amplifier	1	Oct 91	Onboard
C-198-6671 31043	Class "C" Amplifier	1	Oct 91	Onboard
C-198-6671 31044	PNP Transistor	1	Oct 91	Onboard
C-198-6671 31045	Fixed Bias	1	Oct 91	Onboard
C-198-6671 31046	Self Bias	1	Oct 91	Onboard
C-198-6671 31047	Combination Bias	1	Oct 91	Onboard
C-198-6671 31048	Amplifier Terms	1	Oct 91	Onboard
C-198-6671 31049	Basic Amplifier Circuit	1	Oct 91	Onboard
C-198-6671 31050	Transistor Circuit #1	1	Oct 91	Onboard
C-198-6671 31051	Transistor Circuit #2	1	Oct 91	Onboard
C-198-6671 31052	Transistor Circuit #3	1	Oct 91	Onboard
C-198-6671 31053	Transistor Circuit #4	1	Oct 91	Onboard
C-198-6671 31054	Objective e	1	Oct 91	Onboard
C-198-6671 31055	Triode/Tetrode Schematic	1	Oct 91	Onboard
C-198-6671 31056	Multi-electrode Tubes	1	Oct 91	Onboard
C-198-6671 31057	Transistor/Tube Comparison	1	Oct 91	Onboard
C-198-6671 31058	UJT	1	Oct 91	Onboard
C-198-6671 31059	JFET Comparison	1	Oct 91	Onboard
C-198-6671 31060	JFET Structure	1	Oct 91	Onboard
C-198-6671 31061	JFET/MOSFET Comparison	1	Oct 91	Onboard
C-198-6671 31062	MOSFET Types	1	Oct 91	Onboard
C-198-6671 31063	Objective f	1	Oct 91	Onboard
C-198-6671 31064	Transistor Configurations	1	Oct 91	Onboard
C-198-6671 31065	Direct coupled amplifiers	1	Oct 91	Onboard
C-198-6671 31066	RC Coupled amplifiers	1	Oct 91	Onboard
C-198-6671 31067	Impedance coupling	1	Oct 91	Onboard
C-198-6671 31068	Transformer coupling	1	Oct 91	Onboard
C-198-6671 31069	Audio amplifier circuit	1	Oct 91	Onboard
C-198-6671 31070	Impedance matching effects	1	Oct 91	Onboard
C-198-6671 31071	Amplifier circuit	1	Oct 91	Onboard
C-198-6671 31072	Single-input Differential amplifier #1	1	Oct 91	Onboard
C-198-6671 31073	Single-input Differential amplifier #2	1	Oct 91	Onboard
C-198-6671 31074	Differential input Differential amplifier	1	Oct 91	Onboard
C-198-6671 31075	Differential amplifier	1	Oct 91	Onboard
C-198-6671 31076	OpAmp Block Diagram	1	Oct 91	Onboard
C-198-6671 31077	Comparator Configurations	1	Oct 91	Onboard
C-198-6671 31078	Comparator Circuit	1	Oct 91	Onboard
C-198-6671 31079	Closed Loop Inverting	1	Oct 91	Onboard
C-198-6671 31080	Virtual Ground	1	Oct 91	Onboard
C-198-6671 31081	Closed Loop, Non-inverting	1	Oct 91	Onboard
C-198-6671 31082	Differential input OpAmp	1	Oct 91	Onboard
C-198-6671 31083	Input offset voltages	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 31084	Common Mode rejection	1	Oct 91	Onboard
C-198-6671 31085	AC output compliance	1	Oct 91	Onboard
C-198-6671 31086	Slew rate/Distortion	1	Oct 91	Onboard
C-198-6671 31087	Adder	1	Oct 91	Onboard
C-198-6671 31088	Subtractor	1	Oct 91	Onboard
C-198-6671 31089	Scaler	1	Oct 91	Onboard
C-198-6671 31090	Difference amplifier	1	Oct 91	Onboard
C-198-6671 31091	OpAmp circuit uses	1	Oct 91	Onboard
C-198-6671 31092	Objective g	1	Oct 91	Onboard
C-198-6671 31093	Oscillator components	1	Oct 91	Onboard
C-198-6671 31094	RC Phase shift oscillator	1	Oct 91	Onboard
C-198-6671 31095	Armstrong oscillator	1	Oct 91	Onboard
C-198-6671 31096	Hartley oscillator	1	Oct 91	Onboard
C-198-6671 31097	Colpitts oscillator	1	Oct 91	Onboard
C-198-6671 31098	WeinBridge oscillator	1	Oct 91	Onboard
C-198-6671 31099	Tunnel Diode oscillator	1	Oct 91	Onboard
C-198-6671 31100	Crystal controlled Colpitts oscillator	1	Oct 91	Onboard
C-198-6671 31101	Crystal schematic equivalent	1	Oct 91	Onboard
C-198-6671 31102	Astable Multivibrator	1	Oct 91	Onboard
C-198-6671 31103	Monostable Multivibrator	1	Oct 91	Onboard
C-198-6671 31104	Bi-stable Multivibrator	1	Oct 91	Onboard
C-198-6671 31105	UJT Sawtooth generator	1	Oct 91	Onboard
C-198-6671 31106	Sawtooth generator	1	Oct 91	Onboard
C-198-6671 31107	Blocking oscillator	1	Oct 91	Onboard
C-198-6671 31108	Lead network	1	Oct 91	Onboard
C-198-6671 31109	Lag network	1	Oct 91	Onboard
C-198-6671 31110	Low pass filter	1	Oct 91	Onboard
C-198-6671 31111	High pass filter	1	Oct 91	Onboard
C-198-6671 31112	Bandpass filter	1	Oct 91	Onboard
C-198-6671 31113	Band-reject filter	1	Oct 91	Onboard
C-198-6671 31114	Series positive limiter	1	Oct 91	Onboard
C-198-6671 31115	Parallel positive limiter	1	Oct 91	Onboard
C-198-6671 31116	Series positive limiter with bias	1	Oct 91	Onboard
C-198-6671 31117	Parallel positive limiter with bias	1	Oct 91	Onboard
C-198-6671 31118	Series negative limiter	1	Oct 91	Onboard
C-198-6671 31119	Parallel negative limiter	1	Oct 91	Onboard
C-198-6671 31120	Dual diode limiter	1	Oct 91	Onboard
C-198-6671 31121	Positive clamper	1	Oct 91	Onboard
C-198-6671 31122	Positive clamper with bias	1	Oct 91	Onboard
C-198-6671 31123	Negative clamper	1	Oct 91	Onboard
C-198-6671 31124	RC integrator	1	Oct 91	Onboard
C-198-6671 31125	RC differentiator	1	Oct 91	Onboard
C-198-6671 31126	Schmitt trigger circuit	1	Oct 91	Onboard
C-198-6671 31127	Objective h	1	Oct 91	Onboard
C-198-6671 31128	Power supply block diagram	1	Oct 91	Onboard
C-198-6671 31129	Transformers	1	Oct 91	Onboard
C-198-6671 31130	Transformer circuit	1	Oct 91	Onboard
C-198-6671 31131	Half-wave rectifier	1	Oct 91	Onboard
C-198-6671 31132	Full wave rectifier	1	Oct 91	Onboard
C-198-6671 31133	Bridge rectifier	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 31134	Capacitor filter	1	Oct 91	Onboard
C-198-6671 31135	RC filter	1	Oct 91	Onboard
C-198-6671 31136	L/C Capacitor input filter	1	Oct 91	Onboard
C-198-6671 31137	L/C Choke input filter	1	Oct 91	Onboard
C-198-6671 31138	Basic voltage regulation	1	Oct 91	Onboard
C-198-6671 31139	Series regulator schematic	1	Oct 91	Onboard
C-198-6671 31140	Shunt regulator schematic	1	Oct 91	Onboard
C-198-6671 31141	Shunt detected/series regulator	1	Oct 91	Onboard
C-198-6671 31142	Three terminal IC regulator	1	Oct 91	Onboard
C-198-6671 31143	Objective i	1	Oct 91	Onboard
C-198-6671 31144	Logic Families Chart	1	Oct 91	Onboard
C-198-6671 31145	Logic Gates	1	Oct 91	Onboard
C-198-6671 31146	Schematic equivalents	1	Oct 91	Onboard
C-198-6671 31147	Logic equivalents	1	Oct 91	Onboard
C-198-6671 31148	Propagation delay	1	Oct 91	Onboard
C-198-6671 31149	Tri-state logic	1	Oct 91	Onboard
C-198-6671 31150	Schmitt trigger	1	Oct 91	Onboard
C-198-6671 31151	Objective j	1	Oct 91	Onboard
C-198-6671 31152	RS latch	1	Oct 91	Onboard
C-198-6671 31153	D latch	1	Oct 91	Onboard
C-198-6671 31154	JK flip-flop	1	Oct 91	Onboard
C-198-6671 31155	Master-Slave JK flip-flop	1	Oct 91	Onboard
C-198-6671 31156	Asynchronous counter	1	Oct 91	Onboard
C-198-6671 31157	Synchronous counter	1	Oct 91	Onboard
C-198-6671 31158	Decade counter	1	Oct 91	Onboard
C-198-6671 31159	Shift register	1	Oct 91	Onboard
C-198-6671 31160	Universal shift register	1	Oct 91	Onboard
C-198-6671 31161	Decoder	1	Oct 91	Onboard
C-198-6671 31162	Multiplexer	1	Oct 91	Onboard
C-198-6671 31163	Objective k	1	Oct 91	Onboard
C-198-6671 31164	Objective l	1	Oct 91	Onboard
C-198-6671 3201	Objectives	1	Oct 91	Onboard
C-198-6671 3202	323 Front Panel	1	Oct 91	Onboard
C-198-6671 3203	323 Rear Panel	1	Oct 91	Onboard
C-198-6671 3204	323 Block Diagram	1	Oct 91	Onboard
C-198-6671 3205	323 Schematic 1	1	Oct 91	Onboard
C-198-6671 3206	323 Schematic 2	1	Oct 91	Onboard
C-198-6671 3207	323 Schematic 3	1	Oct 91	Onboard
C-198-6671 3208	323 Overall Schematic 4	1	Oct 91	Onboard
C-198-6671 3209	Performance Test Answer Sheet Front	1	Oct 91	Onboard
C-198-6671 3210	Performance Test Answer Sheet Back	1	Oct 91	Onboard
C-198-6671 3211	Meter Card OPNAV 4790/58	1	Oct 91	Onboard
C-198-6671 3301	Objectives	1	Oct 91	Onboard
C-198-6671 3302	3440A Front Panel/Rear Panel	1	Oct 91	Onboard
C-198-6671 3303	3440A Block Diagram	1	Oct 91	Onboard
C-198-6671 3304	3440A Overall Schematic	1	Oct 91	Onboard
C-198-6671 3305	3440A Range Select Logic	1	Oct 91	Onboard
C-198-6671 3306	3440A Schematic 1	1	Oct 91	Onboard
C-198-6671 3307	3440A Schematic 2	1	Oct 91	Onboard
C-198-6671 3308	U6/U7 Relationship curve 1	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 3309	U6/U7 Relationship curve 2	1	Oct 91	Onboard
C-198-6671 3310	U6/U7 Relationship curve 3	1	Oct 91	Onboard
C-198-6671 3311	3440A Power supply	1	Oct 91	Onboard
C-198-6671 3401	Objectives	1	Oct 91	Onboard
C-198-6671 3402	8600A Front Panel/Rear Panel	1	Oct 91	Onboard
C-198-6671 3403	8600A Block Diagram	1	Oct 91	Onboard
C-198-6671 3404	8600A Power Supply	1	Oct 91	Onboard
C-198-6671 3405	8600A Battery Power Supply PCB	1	Oct 91	Onboard
C-198-6671 3406	8600A Input Divider	1	Oct 91	Onboard
C-198-6671 3407	8600A Ohms Converter Simplified	1	Oct 91	Onboard
C-198-6671 3408	8600A Ohms Converter	1	Oct 91	Onboard
C-198-6671 3409	8600A A/C Converter	1	Oct 91	Onboard
C-198-6671 3410	8600A Current Shunt	1	Oct 91	Onboard
C-198-6671 3411	Dual Slope Conversion	1	Oct 91	Onboard
C-198-6671 3412	8600A A/D Converter Simplified	1	Oct 91	Onboard
C-198-6671 3413	8600A A/D Control Signals	1	Oct 91	Onboard
C-198-6671 3414	8600A Control Schematic	1	Oct 91	Onboard
C-198-6671 3415	8600A Display Schematic	1	Oct 91	Onboard
C-198-6671 3416	8600A Overall Schematic 1	1	Oct 91	Onboard
C-198-6671 3417	8600A Overall Schematic 2	1	Oct 91	Onboard
C-198-6671 3418	8600A Overall Schematic 3	1	Oct 91	Onboard
C-198-6671 3419	8600A Troubleshooting Matrix	1	Oct 91	Onboard
C-198-6671 4101	893A Front Panel	1	Oct 91	Onboard
C-198-6671 4102	893A Rear Panel	1	Oct 91	Onboard
C-198-6671 4103	893A/893AR Model Differences Picture	1	Oct 91	Onboard
C-198-6671 4104	893A Safety Considerations	1	Oct 91	Onboard
C-198-6671 4105	893A Off-Null DC Input Resistance Graph	1	Oct 91	Onboard
C-198-6671 4106	893A Block Diagram	1	Oct 91	Onboard
C-198-6671 4107	893A Reference Amp/Reference Inverter Block Diagram	1	Oct 91	Onboard
C-198-6671 4108	893A Null Detector Block Diagram	1	Oct 91	Onboard
C-198-6671 4109	893A AC Converter Block Diagram	1	Oct 91	Onboard
C-198-6671 4110	893A Assembly Location Chart	1	Oct 91	Onboard
C-198-6671 4201	2336YA Operators Safety Summary	1	Oct 91	Onboard
C-198-6671 4202	2336YA Options Sheet	1	Oct 91	Onboard
C-198-6671 4203	2336YA Adjustment Interaction Chart	1	Oct 91	Onboard
C-198-6671 4204	2336YA Replaceable Electrical Parts Summary	1	Oct 91	Onboard
C-198-6671 4205	2336YA Replaceable Mechanical Parts Summary	1	Oct 91	Onboard
C-198-6671 4206	2336YA Front Panel	1	Oct 91	Onboard
C-198-6671 4207	2336YA Rear Panel	1	Oct 91	Onboard
C-198-6671 4208	2336YA Vertical Attenuator Exploded View	1	Oct 91	Onboard
C-198-6671 4209	2336YA Block Diagram	1	Oct 91	Onboard
C-198-6671 4210	2336YA Vertical Block Diagram	1	Oct 91	Onboard
C-198-6671 4211	2336YA Channel 1 Vertical Atten Simplified Diagram	1	Oct 91	Onboard
C-198-6671 4212	2336YA U215 MUX Switching Operation Diagram	1	Oct 91	Onboard
C-198-6671 4213	2336YA "A" Trigger Block Diagram	1	Oct 91	Onboard
C-198-6671 4214	2336YA "B" Trigger Block Diagram	1	Oct 91	Onboard
C-198-6671 4215	2336YA "A" Sweep Block Diagram	1	Oct 91	Onboard
C-198-6671 4216	2336YA "B" Sweep Block Diagram	1	Oct 91	Onboard
C-198-6671 4217	2336YA Horizontal Amplifier Block Diagram	1	Oct 91	Onboard
C-198-6671 4218	2336YA Low Voltage Power Supply Schematic	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID		QTY REQD	DATE REQD	STATUS
Transparencies (cont.)				
C-198-6671 4219	2336YA Delta Time Logic Schematic	1	Oct 91	Onboard
C-198-6671 4220	2336YA DC Restorer Simplified Diagram	1	Oct 91	Onboard
C-198-6671 4301	5328A-H99 Front Panel	1	Oct 91	Onboard
C-198-6671 4302	5328A-H99 Rear Panel	1	Oct 91	Onboard
C-198-6671 4303	Basic Frequency Counter Block Diagram	1	Oct 91	Onboard
C-198-6671 4304	5328A-H99 Block Diagram	1	Oct 91	Onboard
C-198-6671 5101	Unit Objectives	1	Oct 91	Onboard
C-198-6671 5102	8640B Front Panel	1	Oct 91	Onboard
C-198-6671 5103	8640B Rear Panel	1	Oct 91	Onboard
C-198-6671 5201	Unit Objectives	1	Oct 91	Onboard
C-198-6671 5202	8350B Front Panel	1	Oct 91	Onboard
C-198-6671 5203	8350B Rear Panel	1	Oct 91	Onboard
C-198-6671 5301	Unit Objectives	1	Oct 91	Onboard
C-198-6671 5302	Front Panel	1	Oct 91	Onboard
C-198-6671 5303	Rear Panel	1	Oct 91	Onboard
C-198-6671 5304	Functional Block Diagram, Diamond 1	1	Oct 91	Onboard
C-198-6671 5305	1st Converter Block Diagram, Diamond 2	1	Oct 91	Onboard
C-198-6671 5306	2nd Converter Block Diagram, Diamond 3	1	Oct 91	Onboard
C-198-6671 5307	3rd Converter Block Diagram, Diamond 4	1	Oct 91	Onboard
C-198-6671 5308	IF Section Block Diagram, Diamond 5	1	Oct 91	Onboard
C-198-6671 5309	Display Section Block Diagram, Diamond 6	1	Oct 91	Onboard
C-198-6671 5310	Frequency Control Section Block Diagram, Diamond 7	1	Oct 91	Onboard
Student Workbooks				
SW E3AZR2P051 048-1	Basic Calibration I	13	Oct 91	Onboard
SW E3AZR2P051 048-2	Basic Calibration II	13	Oct 91	Onboard
SW E3AZR2P051 048-3	Electronic Circuit Analysis and Troubleshooting	13	Oct 91	Onboard
SW E3AZR2P051 048-3	Electronic Repair I	13	Oct 91	Onboard
SW E3AZR2P051 048-4	Electronic Repair II	13	Oct 91	Onboard
SW E3AZR2P051 048-5	Electronic Repair III	13	Oct 91	Onboard
Student Handouts				
HO E3AZR2P051 048-3-2	True RMS Voltmeter Schematics	13	Oct 91	Onboard
HO E3AZR2P051 048-3-3	RF Millivoltmeter Schematics	13	Oct 91	Onboard
HO E3AZR2P051 048-3-4	Digital Multimeter Schematic	13	Oct 91	Onboard
HO E3AZR2P051 048-4-1	Differential Voltmeter Schematic	13	Oct 91	Onboard
HO E3AZR2P051 048-4-2	Oscilloscope Schematic	13	Oct 91	Onboard
HO E3AZR2P051 048-4-3	Universal Counter Schematics	13	Oct 91	Onboard
HO E3AZR2P051 048-5-1	8640B Signal Generator Schematics	13	Oct 91	Onboard
HO E3AZR2P051 048-5-2	Sweep Oscillator Schematics	13	Oct 91	Onboard
HO E3AZR2P051 048-5-3	Spectrum Analyzer Schematics	13	Oct 91	Onboard
Instructor Guides		3	Oct 91	Onboard
Student Evaluations		50	Oct 91	Onboard
Student Tests		50	Oct 91	Onboard
Audio/Visual Aids				
Model: D' Arsonval Meter Movement		1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-198-2011, Advanced Calibration Technician

TRAINING ACTIVITY: NTTU Keesler, AFB

LOCATION, UIC: Biloxi, Mississippi, 35970

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Compass and Ruler	20	Oct 91	Onboard
Compressed Air	2	Oct 91	Onboard
Easel	1	Oct 91	Onboard
Film, Klystrons and Travelling Wave Tubes (Optional)	1	Oct 91	Onboard
Film, Transmission Lines and Waveguides (Optional)	1	Oct 91	Onboard
HO G3ABR23430 002-2, Basic Mathematics	20	Oct 91	Onboard
HO G3ABR23430 00203, Introduction to Algebra	20	Oct 91	Onboard
Lint Free Cloth	2	Oct 91	Onboard
Pencils, Color Set	20	Oct 91	Onboard
Smith Chart	1	Oct 91	Onboard
Solvents	2	Oct 91	Onboard
Student Critiques	20	Oct 91	Onboard
Swabs: Cotton and Foam	2	Oct 91	Onboard
Toothpicks	2	Oct 91	Onboard
Transparency Set, Resistance and Impedance Calibration Standards and TAMS	1	Oct 91	Onboard
Transparency Set, Lab Equipment (Optional)	1	Oct 91	Onboard
Transparency Set, Waveform Analysis	1	Oct 91	Onboard
Transparency Set, 8510B Network Analyzer Block Diagram	1	Oct 91	Onboard
Transparency Set, 8515B S-Parameter Test Set Block Diagram	1	Oct 91	Onboard
Transparency Set, Attenuation Measurements (Optional)	1	Oct 91	Onboard
Transparency Set, Basic ALC Circuit (Optional)	1	Oct 91	Onboard
Transparency Set, Basic Sweeper (Optional)	1	Oct 91	Onboard
Transparency Set, Calibrated Grids (Optional)	1	Oct 91	Onboard
Transparency Set, Frequency Calibration Standards and TAMS	1	Oct 91	Onboard
Transparency Set, Gage Kits (Optional)	1	Oct 91	Onboard
Transparency Set, Impedance Measurements	1	Oct 91	Onboard
Transparency Set, Insertable and Non-Insertabale Devices (Optional)	1	Oct 91	Onboard
Transparency Set, Leveling Configurations (Optional)	1	Oct 91	Onboard
Transparency Set, Meter TAMS	1	Oct 91	Onboard
Transparency Set, Microwave Connectors	1	Oct 91	Onboard
Transparency Set, Network Analyzer Calibration (Optional)	1	Oct 91	Onboard
Transparency Set, Oscilloscope Measurement Systems	1	Oct 91	Onboard
Transparency Set, Power Measurements	1	Oct 91	Onboard
Transparency Set, Signal Generation TAMS	1	Oct 91	Onboard
Transparency Set, Signal Generator Calibrator	1	Oct 91	Onboard
Transparency Set, Signal Measurement TAMS	1	Oct 91	Onboard
Transparency Set, Signal Separation Devices (Optional)	1	Oct 91	Onboard
Transparency Set, Spectrum Analysis (Optional)	1	Oct 91	Onboard
Transparency Set, Switch Equal Adapters Connections (Optional)	1	Oct 91	Onboard
Transparency Set, Transmission Lines and Waveguides	1	Oct 91	Onboard
Transparency Set, Voltage and Current TAMS	1	Oct 91	Onboard
Uncertainty and Loss Charts	20	Oct 91	Onboard
Video Tape, Hewlett Packard 5061 "A Cesium Beam: Theory of Operation"	1	Oct 91	Onboard
Video Tape, Basic Electronic Counter Functions	1	Oct 91	Onboard
Video Tape, Improved Counter Measurements	1	Oct 91	Onboard
Video Tape, Sampling Oscilloscopes (Optional)	1	Oct 91	Onboard
Video Tape, Time and Time Dissemination	1	Oct 91	Onboard
Visual Display Panel	1	Oct 91	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Written Tests	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-198-6671, General Purpose Electronic Test Equipment Calibration and Maintenance (GCAMS)
 (Track C-198-2012)

TRAINING ACTIVITY: NTTU KEESLER AFB
LOCATION, UIC: Biloxi MS, 35970

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Applicable Calibration Procedures	Hard copy	13	Oct 91	Onboard
Arbiter 1040C Panel Meter Calibrator Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210A00 Electronic Counter/Frequency Standard Mainframe	Hard copy	13	Oct 91	Onboard
Instruction Manual ARGOSystem AS210-01A Module Controller Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210-02 Frequency Comparator Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210-03 Frequency Generator Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210-04 Digital Delay Generator Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210-05 Standby Battery Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210-06 Microwave Module Instruction Manual	Hard copy	13	Oct 91	Onboard
ARGOSystem AS210A14 Electronic Counter Calibration System Manual	Hard copy	13	Oct 91	Onboard
Ballantine 323 Series True RMS Voltmeter Technical Manual	Hard copy	13	Oct 91	Onboard
Ballantine 3440A RF Millivoltmeter Technical Manual	Hard copy	13	Oct 91	Onboard
Fluke 5200A Programmable AC Calibrator Instruction Manual	Hard copy	13	Oct 91	Onboard
Fluke 5205A Precision Power Amplifier Instruction Manual	Hard copy	13	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Fluke 5700A Calibrator Instruction Manual	Hard copy	13	Oct 91	Onboard
Fluke 5725A Amplifier Instruction Manual	Hard copy	13	Oct 91	Onboard
Fluke 8506A Thermal RMS Digital Multimeter Instruction Manual	Hard copy	13	Oct 91	Onboard
Fluke 8600A Digital Multimeter Technical Manual	Hard copy	13	Oct 91	Onboard
Fluke 893A Differential Voltmeter Technical Manual	Hard copy	13	Oct 91	Onboard
Hewlett Packard 53131A/132A 225MHz Universal Counter Operating Guide	Hard copy	13	Oct 91	Onboard
Hewlett-Packard 5328A-H99 Universal Frequency Counter Operating and Service Manual	Hard copy	13	Oct 91	Onboard
HP 11722A & 11792A Sensor Module Operating and Service Manual	Hard copy	13	Oct 91	Onboard
HP 11793A Microwave Converter Operating and Service Manual	Hard copy	13	Oct 91	Onboard
HP 400F/FL AC Voltmeter Operating and Service Manual	Hard copy	13	Oct 91	Onboard
HP 436A Power Meter Operating Information Manual	Hard copy	13	Oct 91	Onboard
HP 8350B Sweep Oscillator, Operation and Service Manual	Hard copy	13	Oct 91	Onboard
HP 83595A RF Plug-In, Operation and Service Manual	Hard copy	13	Oct 91	Onboard
HP 83711B/12B Synthesized CW Generator Operating Information Manual	Hard copy	13	Oct 91	Onboard
HP 8481A & 8482A Power Sensor Operating and Service Manual	Hard copy	13	Oct 91	Onboard
HP 8562 A/B	Hard copy	13	Oct 91	Onboard
Spectrum Analyzer Operating and Service Manual				

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
HP 8640B Signal Generator, Operation and Calibration Manual Volume I	Hard copy	13	Oct 91	Onboard
HP 8640B Signal Generator, Service Manual Volume II	Hard copy	13	Oct 91	Onboard
HP 8640B Signal Generator, Service Manual Volume III	Hard copy	13	Oct 91	Onboard
HP 8902A Measuring Receiver Operation and Calibration Manual	Hard copy	13	Oct 91	Onboard
HP 8902A Measuring Receiver Basic Operation and Application Guide	Hard copy	13	Oct 91	Onboard
8902A Operation Made Easy	Hard copy	13	Oct 91	Onboard
HP 8902A Option E51 Microwave Signal Generator Calibrator System Manual	Hard copy	13	Oct 91	Onboard
Keithley 175AV Digital Multimeter Instruction Manual	Hard copy	13	Oct 91	Onboard
NAVAIR 17-20GA-05 Coaxial Attenuator Calibration Procedure	Hard copy	13	Oct 91	Onboard
NAVAIR 17-20GV-09 VSWR Coaxial Instrument Calibration Procedure	Hard copy	13	Oct 91	Onboard
NAVAIR 17-35MTL-1 Metrology Requirements List	Hard copy	13	Oct 91	Onboard
NAVEDTRA B72-16-00-84 Navy Electricity and Electronics Training Series: Module 16 - Introduction to Test Equipment	Hard copy	13	Oct 91	Onboard
OPNAV 43P6A Metrology Automated System for Uniform Recall and Reporting (MEASURE) User's Manual	Hard copy	13	Oct 91	Onboard
Tektronix 015-0310-01 Comparator Instruction Manual	Hard copy	13	Oct 91	Onboard
Tektronix 015-0311-01 Programmable Pulse Head Instruction Manual	Hard copy	13	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Tektronix 015-0611-00 Programmable Pulse Head Instruction Manual	Hard copy	13	Oct 91	Onboard
Tektronix 2336YA Oscilloscope Service Manual	Hard copy	13	Oct 91	Onboard
Tektronix 492/6 Spectrum Analyzer, Operators Manual	Hard copy	13	Oct 91	Onboard
Tektronix 492/6 Spectrum Analyzer, Service Manual Volume I	Hard copy	13	Oct 91	Onboard
Tektronix 492/6 Spectrum Analyzer, Service Manual Volume II	Hard copy	13	Oct 91	Onboard
Tektronix CG5011 Programmable Calibration Generator VOL I with Options CG5010/CG5011	Hard copy	13	Oct 91	Onboard
Tektronix CG551AP Programmable Calibration Generator Instruction Manual	Hard copy	13	Oct 91	Onboard
Tektronix SG5030 Programmable Leveled Sine Wave Generator Operation Manual	Hard copy	13	Oct 91	Onboard
Tektronix TM5006A Power Module Instruction Manual	Hard copy	13	Oct 91	Onboard
Tektronix TM503 Power Module Instruction Manual	Hard copy	13	Oct 91	Onboard
Tektronix TM515 Power Module Instruction Manual	Hard copy	13	Oct 91	Onboard
Wiltron SWR Autotesters and Bridges Operation and Maintenance Manual	Hard copy	13	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-198-2011, Advanced Calibration Technician
TRAINING ACTIVITY: NTTU Keesler, AFB
LOCATION, UIC: Biloxi, Mississippi, 35970

TECHNICAL MANUAL NUMBER / TITLE	QTY MEDIUM	DATE REQD	REQD	STATUS
AP E3AZR2P051 014-VI Swept Frequency and Network Analyzer Measurements	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-VI-4 Network Analyzer Concepts	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-I Resistance, Impedance, Voltage and Current TAMS	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-II Meter TAMS, Waveform analysis and Oscilloscope TAMS	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-III Frequency Calibration, Time and Signal TAMS, and Signal Generation TAMS	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-IV Microwave Theory and Application	Hard copy	20	Oct 91	Onboard
AP E3AZR2P051 014-V fixed Frequency Microwave Measurements	Hard copy	20	Oct 91	Onboard
Argo Technical Manual Calibrator, Argo Model AS210	Hard copy	20	Oct 91	Onboard
ASI Technical Manual Panel Meter Calibrator, Model 1040 Series	Hard copy	20	Oct 91	Onboard
Austron Technical Manual Portable Crystal Clock, Model 1210C/D	Hard copy	20	Oct 91	Onboard
Datron Technical Manual AC Measurement System, Model 4920M (Extract)	Hard copy	20	Oct 91	Onboard
ESI Instruction Manual Transportable Standard Resistor, Model SR-104	Hard copy	20	Oct 91	Onboard
ESI Instruction Manual Precision Resistance Measuring System Model 242D	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operating and Service Manual, 85055A Verification Kit	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 150-2, Spectrum Analysis Pulsed RF Modulation	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Hewlett Packard Operating and Service Manual, 85054B Calibration Kit	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operators Manual, 8510B Network Analyzer	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operating Instructions, Model 7090A	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operating Guide, Model 8340B	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operators and Service Manual, 432A Power Meter	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 183	Hard copy	20	Oct 91	Onboard
Hewlett Packard Operating and Service Manual, 8510B Network Analyzer	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 326	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 64	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 150-1, Spectrum Analysis AM and FM Modulation	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 56	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 64-1	Hard copy	20	Oct 91	Onboard
Hewlett Packard Application Note 150, Spectrum Analyzer Basics	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Cesium Beam Frequency Standard, Model 5061B	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Service Manual, 8902A Signal Generator Calibrator	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Service Manual, 8340B Synthesized Sweep Generator	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Hewlett Packard Manual Operation Manual, Model 8340B	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Service Manual, Calibration Kit, 85054B	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Programming Manual, Model 8562A	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operation and Service Audio Synthesizer, Model HP33120A	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Service Manual, Verification Kit, 85055A	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operation and Service Digital Oscilloscope, Model 54504A	Hard copy	20	Oct 91	Onboard
Hewlett Packard Manual Operating and Service Manual, 8562A Spectrum Analyzer	Hard copy	20	Oct 91	Onboard
Hewlett Packard Technical Manual Synthesized signal Generator, Model 8644A (Extract)	Hard copy	20	Oct 91	Onboard
Hewlett Packard Technical Manual Measurement Receiver, Model 8902 (Extract)	Hard copy	20	Oct 91	Onboard
Hewlett Packard Technical Manual 8903B Audio Analyzer	Hard copy	20	Oct 91	Onboard
Hewlett Packard Technical Manual Electronic Counter, Model 5334A (Extract)	Hard copy	20	Oct 91	Onboard
Hewlett Packard Microwave Connector Care Manual	Hard copy	20	Oct 91	Onboard
ISA Transaction Volume 3	Hard copy	20	Oct 91	Onboard
John Fluke Technical Manual Lead Compensator, Model 721A (Extract)	Hard copy	20	Oct 91	Onboard
John Fluke Technical manual Standard Resistors, Model 742A (Extract)	Hard copy	20	Oct 91	Onboard
John Fluke technical Manual Meter Calibrator, Model 5700a (Extract)	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
John Fluke Technical Manual Reference Voltage Divider, Model 752A (Extract)	Hard copy	20	Oct 91	Onboard
John Fluke Technical Manual DC Voltage Standard, Model 5440B (Extract)	Hard copy	20	Oct 91	Onboard
John Fluke Technical Manual DC Transfer Standard, Model 732A (Extract)	Hard copy	20	Oct 91	Onboard
John Fluke Technical Manual 5200A AC Calibrator (Extract)	Hard copy	20	Oct 91	Onboard
Leeds and Northrup Data Sheet DC Resistance Standards, A5.111-1968 (Extract)	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AE-39 RV-722 Voltage Divider	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AE-71 332B DC Voltage Standard	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AF-11 Electronic Counters (Extract)	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AF-49L 1210C/D Portable Crystal Clock	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AF-55 5061 Cesium Beam Frequency Reference	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AF-83 AS210 Frequency Standard	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AF-85 AN/URQ-23 Frequency-Time Standard	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AG-259 Function Generator, Model 3310A	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AP-01 RF Wattmeters	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AP-33 436A Power Meter	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AQ-104 5120A/B Meter Calibrator	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AQ-322 Calibrator, Model 5700 Series	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AQ-356 Hewlett-Packard 34401 Digital Multimeter	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 17-20AQ-63 5200A AC Calibrator	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AW-294 Audio analyzer, Model HP8903B	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AW-329M Digital Oscilloscope, Model HP54504A	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AW-341 Oscilloscope, Model TDS620A	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20AW-42 332A distortion Analyzer	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20GD-08 Coaxial Thermistor Mounts	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20GG-89 Instrument Calibration Procedure	Microfiche	20	Oct 91	Onboard
NAVAIR 17-20GN-09 Waveguide Directional Couplers	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20GP-12 432A Power Meter	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20GQ-77 Instrument Calibration Procedure	Microfiche	20	Oct 91	Onboard
NAVAIR 17-20GV-09 VSWR Coaxial Instruments	Hard copy	20	Oct 91	Onboard
NAVAIR 17-20GW-45 Instrument Calibration Procedure	Microfiche	20	Oct 91	Onboard
NAVAIR 17-35HBK-2-3 Handbook	Hard copy	20	Oct 91	Onboard
NAVAIR 17-35HBK-2-4 MECCA Operators Manual, Electronic Counter and Frequency Standard	Hard copy	20	Oct 91	Onboard
SG E3AZR2P051 014-V Fixed Frequency Microwave Measurements	Hard copy	20	Oct 91	Onboard
SG E3AZR2P051 014-VI Swept Frequency and Network Analyzer Measurements	Hard copy	20	Oct 91	Onboard
SG E3AZR2P051 014-VI-4 Network Analyzer Concepts	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
SG E3AZR2PO51 014-I Resistance, Impedance, Voltage and Current TAMS	Hard copy	20	Oct 91	Onboard
SG E3AZR2PO51 014-II Meter TAMS, Waveform analysis and Oscilloscope TAMS	Hard copy	20	Oct 91	Onboard
SG E3AZR2PO51 014-III Frequency Calibration, Time and Signal TAMS, and Signal Generation TAMS	Hard copy	20	Oct 91	Onboard
SG E3AZR2PO51 014-IV Microwave Theory and Application	Hard copy	20	Oct 91	Onboard
Technical Manual Operating and Service Manual, 437B Power Meter	Hard copy	20	Oct 91	Onboard
Technical Manual Operating and Service Manual, 8501 Peak Power Meter	Hard copy	20	Oct 91	Onboard
Tektronics Manual Operation and Service Programmable Leveled Sine Wave Generator, Model SG5030	Hard copy	20	Oct 91	Onboard
Tektronics Manual Oscilloscope, Model 2465 (Extract)	Hard copy	20	Oct 91	Onboard
Tektronics Manual Sampling Plug-In, Model 7S14 (Extract)	Hard copy	20	Oct 91	Onboard
Tektronics Manual Storage Oscilloscope, Model 763A	Hard copy	20	Oct 91	Onboard
Tektronics Manual Operation and Service Programmable Calibration Generator, Model CG5011	Hard copy	20	Oct 91	Onboard
Tektronics Manual Operation and Service Digitizing Oscilloscope, Model TDS620A	Hard copy	20	Oct 91	Onboard
TM 11-6625-2982-14 Wattmeter, AN/URM-120	Hard copy	20	Oct 91	Onboard
TM ET710-AA-OPI-010/5102-URQ23 Frequency-time Standard AN/URQ-23 (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-10-200-1 Electronic Counter, Model 5345A (Extract)	Hard copy	20	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
TO 33A1-12-462-1 Resistance Transfer Standard, Model SR-1010 (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-12-627 Voltage divider, Model RV-722 (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-12-633-1 Ratio Transformer, Model 1011 (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-12-797-1 differential voltmeter, Model 883AB (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-12-927-1 DC Voltage Standard, Model 332B (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-12815-1 DC Differential Voltmeter, Model 895A (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-5-219-1 Model 331A/332B Distortion Analyzer (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-6-115-1 High Impedance Voltmeter-Null Detector, Model 845AB (Extract)	Hard copy	20	Oct 91	Onboard
TO 33A1-6-33-21 415E SWR Meter	Hard copy	20	Oct 91	Onboard
TO 33A1-7-205-1 432A Power Meter	Hard copy	20	Oct 91	Onboard
TO 33A1-8-598-1 Function Generator, Model 3310A (Extract)	Hard copy	20	Oct 91	Onboard
TO 33AA22-32-1 Kelvin-Varley Voltage Divider, Model 720A (Extract)	Hard copy	20	Oct 91	Onboard
TO 33AA6-22 Decade Resistor, Model 1433 Series	Hard copy	20	Oct 91	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Began analysis of MPT requirements	Oct 88	Completed
ACNO/DMSO	Programmed manpower and training resource requirements	Jan 89	Completed
TSA	Delivered Technical Training Equipment (TTE)	Oct 90	Completed
TA	Began follow-on training	Oct 91	Completed
TSA	Delivered curricula materials	Oct 91	Completed
PDA	Promulgated Draft NTP for review	Jun 92	Completed
PDA	Submitted Proposed NTP to OPNAV	Jan 93	Completed
DCNO (MPT)	Approved and promulgated NTP	Apr 93	Completed
NMPC/CMC	Ordered instructors and support personnel	Oct 93	Completed
TSA	Developed Draft NTSP	Dec 99	Completed
TSA	Promulgate Draft NTSP for review	Dec 99	Pending
TSA	Submit Proposed NTSP to OPNAV for approval	Jun 00	Pending
DCNO (MPT)	Approve and Promulgate NTSP	Aug 00	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

**DECISION ITEM OR
ACTION REQUIRED**

COMMAND ACTION DUE DATE STATUS

No actions or decisions are required.

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT James Woolway Head, Plans, Policy, and Fleet Maintenance Support CNO, N881B woolway.james@hq.navy.mil	COMM: (703) 604-7747 DSN: 664-7747 FAX: (703) 604-6972
CAPT Thomas Vandenburg Deputy Head, Aviation Technical Training Branch CNO, N889H vandenburg.thomas@hq.navy.mil	COMM: (703) 604-7730 DSN: 664-7730 FAX: (703) 604-6939
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CAPT Joseph Spurr Head, Aviation Manpower/Training Section CNO, N889G/J spurr.joseph@hq.navy.mil	COMM: (703) 604-7777 DSN: 664-7777 FAX: (703) 604-6969
LCDR Gary Swain Head, Aviation Manpower CNO, N122C1 n122c1@bupers.navy.mil	COMM: (703) 695-3247 DSN: 225-3247 FAX: (703) 614-5308
Mr. Robert Zweibel Training Technology Policy CNO, N75K zweibel.robert@hq.navy.mil	COMM: (703) 614-1344 DSN: 224-1344 FAX: (703) 695-5698
COL Dennis Bartels Branch Head, USMC Aviation Manpower Management CMC, ASM-1 bartelsd@hqmc.usmc.mil	COMM: (703) 614-1244 DSN: 224-1244 FAX: (703) 614-1309
LTCOL Angela Clingman USMC Aircraft Maintenance Officer CMC, ASL-33 clingmanab@hqmc.usmc.mil	COMM: (703) 614-1187 DSN: 224-1187 FAX: (703) 697-7343
LTCOL John Thorton Avionics Officer, Department of Aviation CMC, ASL-34 thortonjm@hqmc.usmc.mil	COMM: (703) 614-1133 DSN: 224-1133 FAX: (703) 697-7343
Mr. Ronald Nassar METCAL PSTL NAVAIRSYSCOM, 3.6.1.3 nassarrp@navair.navy.mil	COMM: (301) 757-9146 DSN: 757-9146 FAX: (301) 757-2682

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Chuck Adams METCAL Program Office NAVAIRSYSCOM, 3.1B.3 adamsca2@navair.navy.mil	COMM: (301) 757-9147 DSN: 757-9147 FAX: (301) 757-2682
Mr. Charlie Brown METCAL Coordinator NAVAIRSYSCOM, 3.1B.3.4 browncb3@navair.navy.mil	COMM: (301) 757-9151 DSN: 757-9151 FAX: (301) 757-2682
ATC Jeffrey Rainwater Training Systems Program Manager NAVAIRSYSCOM, PMA205-3E3 rainwaterja@navair.navy.mil	COMM: (301) 757-8138 DSN: 757-8138 FAX: (301) 757-8079
Mr. Joe Dressel NAVSEA METCAL Program Office NAVSEASYSCOM, SEA-04M13 dresselje@navsea.navy.mil	COMM: (703) 602-1844 ext. 110 DSN: 332-1844 ext. 110 FAX: (703) 602-0810
CDR Robin Mason Aviation NTSP Manager CINCLANTFLT, N-721 masonrf@clf.navy.mil	COMM: (757) 836-0101 DSN: 836-0101 FAX: (757) 836-0141
LCDR Jim Ybarra Tactical Training Requirements Officer CINCPACFLT, N-72 ybarrajs@cpf.navy.mil	COMM: (808) 471-8513 DSN: 315-8513 FAX: (808) 471-8601
ATC Don Jenkins Maintenance Training Office COMNAVAIRESFOR, N-7211 jenkinsd@cnrf.nola.navy.mil	COMM: (504) 678-6457 DSN: 678-6457 FAX: (504) 678-6847
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